

WHC-MR-0403-6

UC-600

# Tri-Party Agreement Milestone Summary

April 1993

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Prepared for the U.S. Department of Energy



**Westinghouse  
Hanford Company**

P.O. Box 1970  
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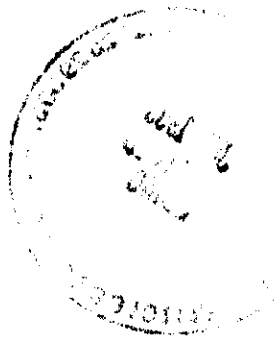
Hanford Operations and Engineering Contractor for the  
U.S. Department of Energy under Contract DE-AC06-87RL10930



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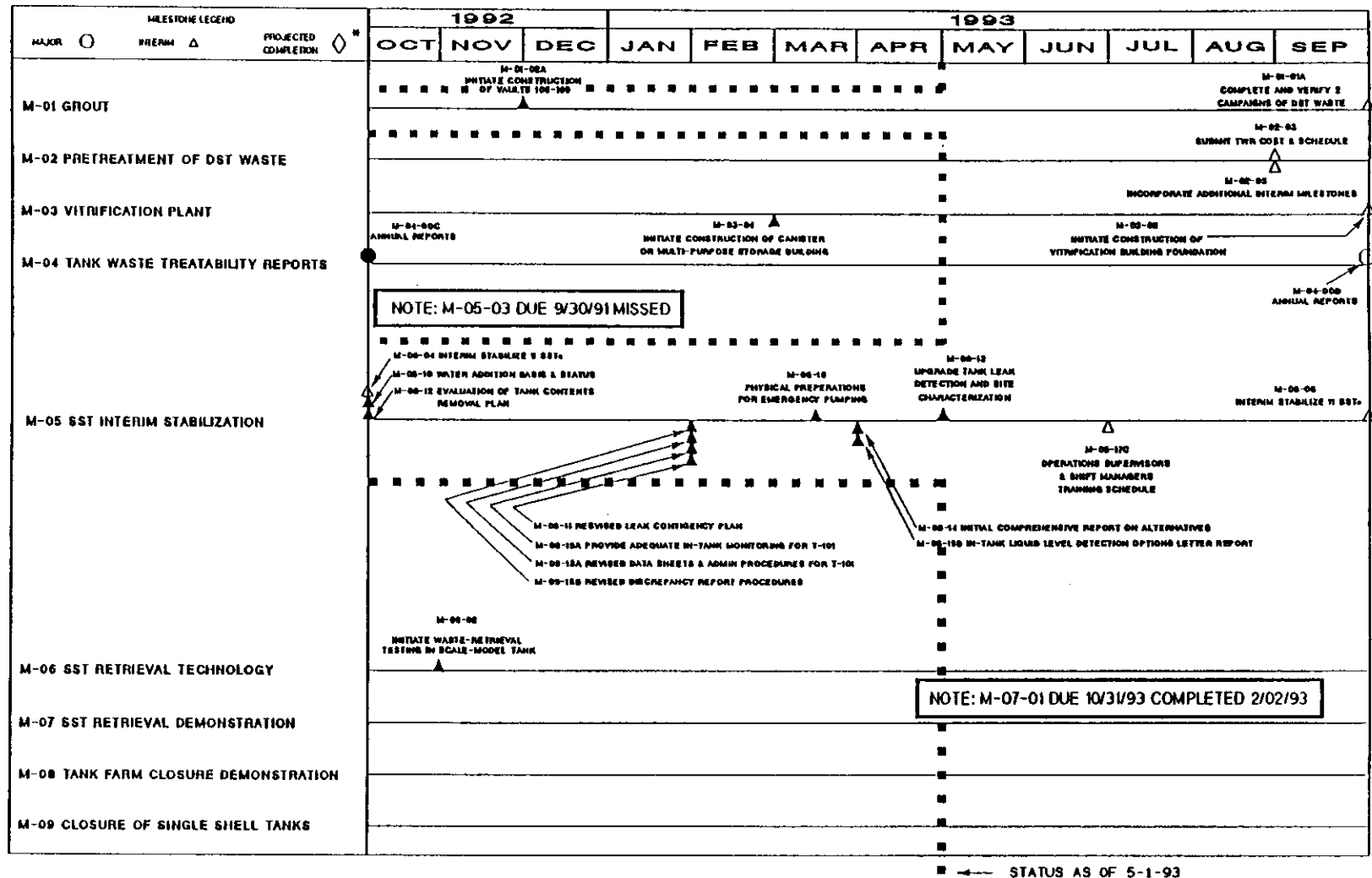
The *Tri-Party Agreement Milestone Summary Report* is issued monthly by the U.S. Department of Energy, Richland Field Office (RL). The report provides a summary progress and financial status for each active *Hanford Federal Facility Agreement and Consent Order* (Tri-Party Agreement) major milestone and its related interim milestones that are active in the current 12-month period. Of the 252 planned interim milestones due by April 30, 1993, 248 were completed.

The following Tri-Party Agreement major milestones have been completed; therefore, they are not included in this report:

		<u>Completed</u>
M-12-00	Submit remedial investigation/feasibility study (RI/FS) or <i>Resource Conservation and Recovery Act</i> (RCRA) facility investigation/corrective measures study (RFI/CMS) work plan for 15 operable units.	6/30/92
M-21-00	Submit RCRA interim status compliance assessments for all treatment, storage, and disposal units.	4/30/89
M-22-00	Establish enforceable compliance action schedules.	12/29/89
M-23-00	Complete interim status corrective actions.	9/30/91
M-25-00	Provide annual reports of in-progress studies or efforts to identify alternatives to land disposal of radioactive mixed waste	Deleted*
	*M-25-00 was deleted 3/31/92 and requirements combined with revised Tri-Party Agreement Milestone M-26-00.	
M-27-00	Submit all aggregate area management study reports (AAMSR) for the 200 areas.	9/29/92
M-28-00	Submit all soils and groundwater background determination documents to U.S. Environmental Protection Agency (EPA) and Washington State Department of Ecology (Ecology).	4/30/92
M-29-00	Submit documentation to EPA and Ecology describing Hanford Site risk assessment methodology.	3/31/92

## TPA MILESTONES

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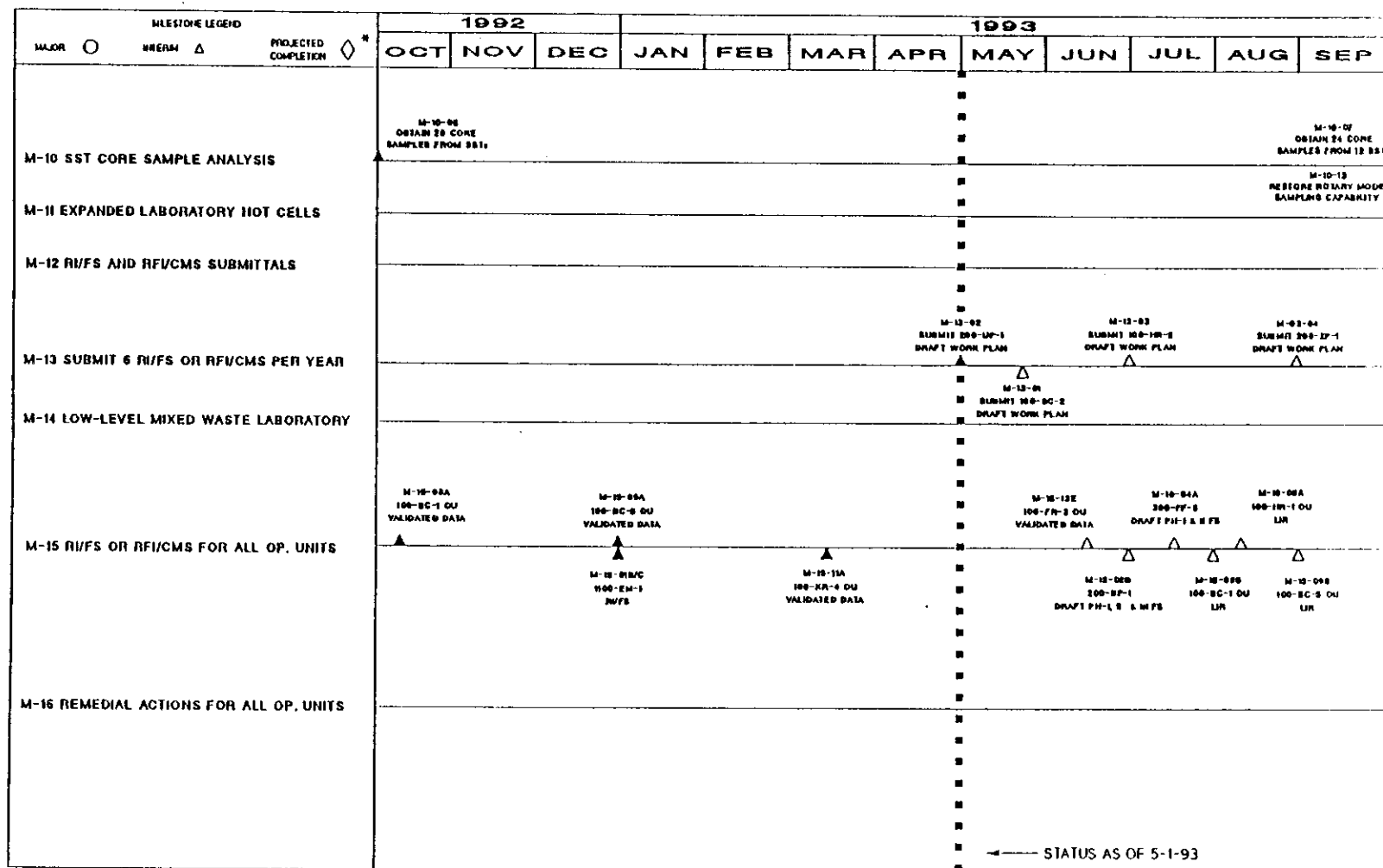


\* PROJECTED MAJOR MILESTONE COMPLETION BASED ON FY 94 PLANNING CASE NOT FY 94 TARGET CASE

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## TPA MILESTONES

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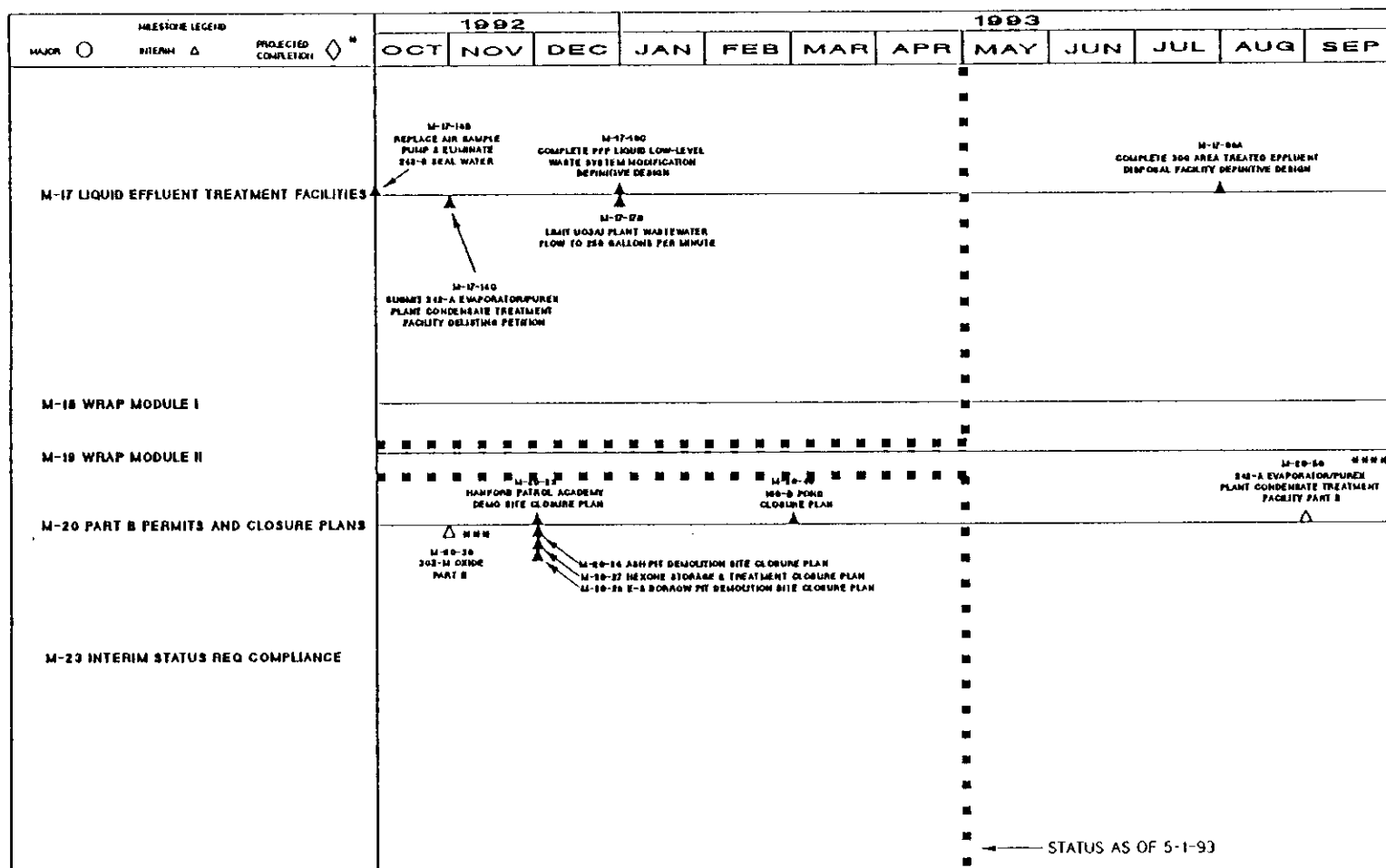


\* PROJECTED MAJOR MILESTONE COMPLETION BASED ON FY 94 PLANNING CASE NOT FY 94 TARGET CASE

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## TPA MILESTONES

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\* PROJECTED MAJOR MILESTONE COMPLETION BASED ON FY 94 PLANNING CASE NOT FY 94 TARGET CASE

\*\* WRAP 2B (TRU WASTE) DELAYED - WRAP 2A (LLW/RMW) PROJECTED TO BE COMPLETED AS SCHEDULED ON 9-30-99

\*\*\* REQUEST TO WITHDRAW PART A DENIED; DISPUTE RESOLUTION STARTED.

\*\*\*\* FACILITY CURRENTLY TITLED "200 AREA EFFLUENT TREATMENT FACILITY".



# TRI-PARTY AGREEMENT BUDGET BASELINE SUMMARY APRIL 1993

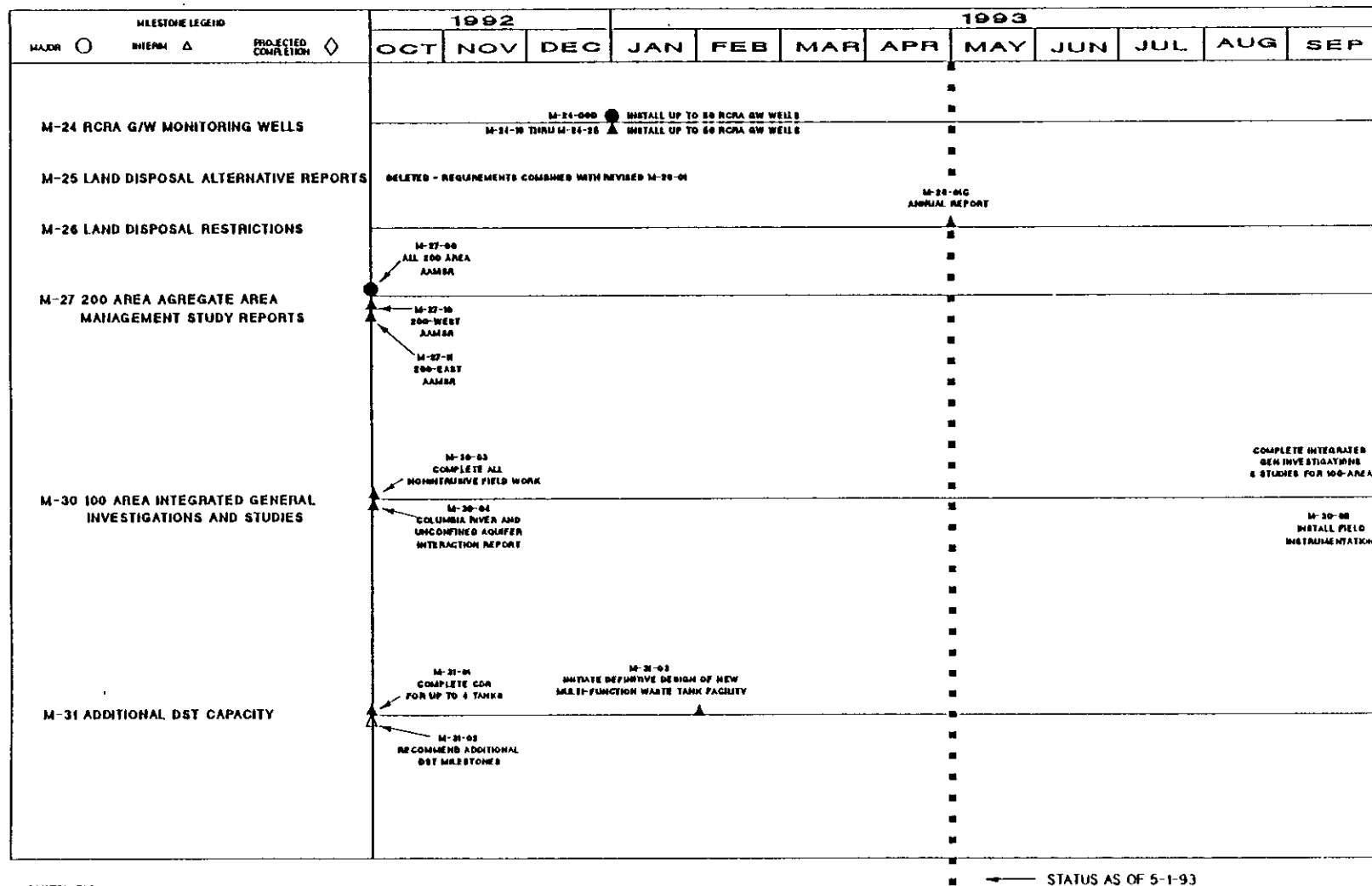
(\$ in Millions)

<u>MAJOR MILESTONE</u>	<u>FYTD BUDGET</u>	<u>FYTD COST</u>	<u>SPENDING VARIANCE</u>	<u>ANNUAL BUDGET</u>
M-00 *	12.1	9.7	2.4	25.1
M-01	20.3	17.9	2.4	37.2
M-02 *	8.7	7.7	1.0	33.9
M-03 *	63.2	56.9	6.3	127.7
M-04	0.0	0.0	0.0	0.1
M-05	2.6	1.8	0.8	7.0
M-06 *	1.9	1.4	0.5	2.9
M-07	2.2	2.1	0.1	5.1
M-08	1.4	1.0	0.4	2.4
M-09	4.0	3.9	0.1	5.4
M-10	13.4	14.3	(0.9)	23.5
M-11	6.5	5.7	0.8	13.7
M-12	0.4	0.2	0.2	0.6
M-13	0.6	0.5	0.1	1.6
M-14	4.2	6.7	(2.5)	10.2
M-15 *	44.8	41.5	3.3	83.7
M-16	6.2	6.0	0.2	12.4
M-17 *	27.5	25.3	2.2	68.3
M-18	4.2	5.2	(1.0)	6.3
M-19	2.8	2.7	0.1	5.9
M-20 *	5.7	3.7	2.0	13.0
M-24	1.2	1.9	(0.7)	3.1
M-26	0.1	0.1	0.0	0.1
M-30	1.3	1.2	0.1	3.6
M-31	5.1	4.5	0.6	11.8
	<u>240.4</u>	<u>221.9</u>	<u>18.5</u>	<u>504.6</u>

\* These milestones include costs from other contractors.  
All other milestones are WHC only.

## TPA MILESTONES

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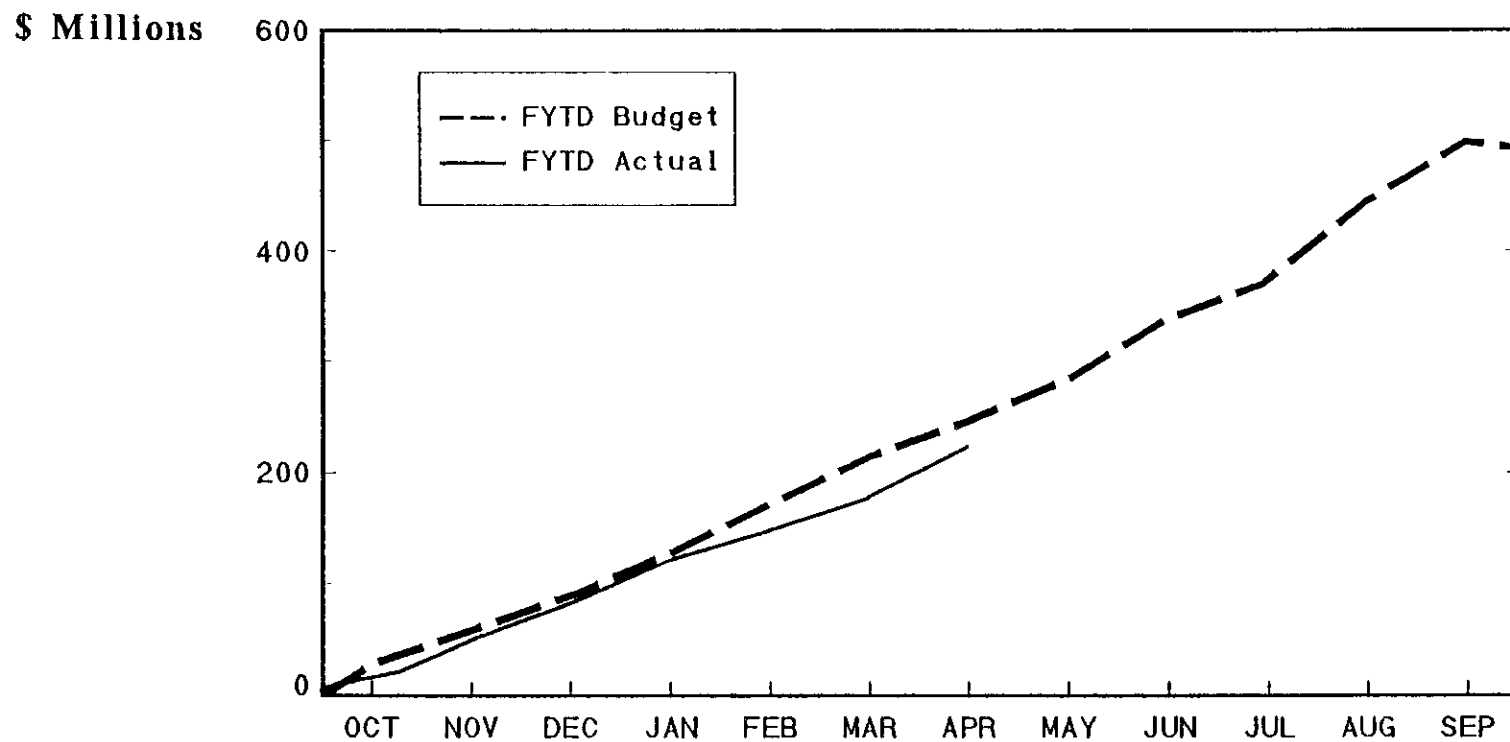
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# TRI-PARTY AGREEMENT ALL MILESTONES

FY 1993



FYTD Budget	27.1	65.2	100.7	138.0	174.2	216.5	240.4	287.1	331.6	376.4	436.2	504.6
FYTD Actual	16.1	53.8	83.1	120.2	149.6	185.5	221.9					
Spending Var	11.0	11.4	17.6	17.8	24.6	31.0	18.5					

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## LIST OF TERMS

CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CY	calendar year
DST	double-shell tank
Ecology	Washington State Department of Ecology
EPA	U.S. Environmental Protection Agency
ERA	expedited response action
FY	fiscal year
HQ	U.S. Department of Energy, Headquarters
HWVP	Hanford Waste Vitrification Plant
LDR	land disposal restrictions
NEPA	National Environmental Policy Act
OU	operable unit
PSAR	preliminary safety analysis report
PUREX	Plutonium-Uranium Extraction (Plant)
RCRA	Resource Conservation and Recovery Act
RFI/CMS	RCRA facility investigation/corrective measures study
RI/FS	remedial investigation/feasibility study
RL	U.S. Department of Energy, Richland Operations Office
SST	single-shell tank
TBD	to be determined
TOE	total operating efficiency
Tri-Party Agreement	<i>Hanford Federal Facility Agreement and Consent Order</i>
TRUEX	transuranic-extraction
TWRS	tank waste remediation system
WHC	Westinghouse Hanford Company
WRAP	Waste Receiving and Processing (Facility)
WSCF	Waste Sampling and Characterization Facility

- Submit performance assessment with best estimate case to the U.S. Department of Energy (RL) for review and forward to U.S. Department of Energy, Headquarters (HQ) peer review panel.
- Continue engineering of facility upgrades such as fire protection, Grout Processing Facility computer modifications, ventilation heat trace, lube oil, sanitary water, and fire system water.
- Develop building emergency plan and conduct necessary training.
- Complete operational test procedures on vault ventilation system and portable instrument house.
- Continue existing facilities evaluations.
- Continue developing and training personnel on administrative, operating, maintenance, and calibration procedures.
- Continue to resolve and close out comments from Brookhaven National Laboratory on the final safety analysis report. Continue confirmatory testing and validation of gas generation in the vaults.

#### MILESTONE STATUS/PROBLEMS/ISSUES

- HQ has received a letter from the U.S. Nuclear Regulatory Commission and has interpreted it as direction to pretreat waste grouting, which would have a significant impact on the Tri-Party Agreement. RL has requested written clarification from HQ.
- Reworking the Performance Assessment HQ Peer Review Panel (Comments/Recommendations) has had a major impact on resources and meeting of milestones. This rework is the major driver for delaying Grout Treatment Facility Tri-Party Agreement milestones (reference change request M-01-92-01A).
- Starting up the Grout Treatment Facility and initiating grout vault 102 filling to meet Milestone M-01-01A ("Complete and Verify Two Campaigns of DST Waste by 1993") is highly unlikely. Additional delays, associated with late mobilization in fiscal year (FY) 1993, facility readiness activities (e.g., procedures, facility upgrades), and resource availability are being incurred (reference change request M-01-92-01A).
- Ecology's review of the Grout Treatment Facility permit application was completed and 15 notices of deficiencies were generated. The majority of the comments require only minor changes to the application.

**MAJOR MILESTONE: M-01-00**  
**STATUS FOR END OF MONTH: APRIL 1993**

DOE DIRECTOR: G. H. Sanders

MANAGER: R. J. Murkowski

BASELINE DATE: December 1996

PROJECTED DATE: To be determined (TBD)

DESCRIPTION: Complete 14 grout campaigns.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected*
M-01-01A	Complete and verify two campaigns of double-shell tank (DST) waste (including one campaign of phosphate-sulfate waste).	9/93	10/94
M-01-01B	Complete one additional campaign of DST waste (total is three campaigns including one phosphate-sulfate waste campaign).	12/93	TBD

\*Projected date reflects *Hanford Federal Facility Agreement and Consent Order* (Tri-Party Agreement) Change Request M-01-92-01A.

**ACCOMPLISHMENTS**

- Reviewed comments on the draft final safety analysis report and resolved about 71% with Brookhaven National Laboratory. Most others will be closed with minor adjustments or by providing additional data to Brookhaven National Laboratory.
- Completed sampling DST 241-AP-102.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

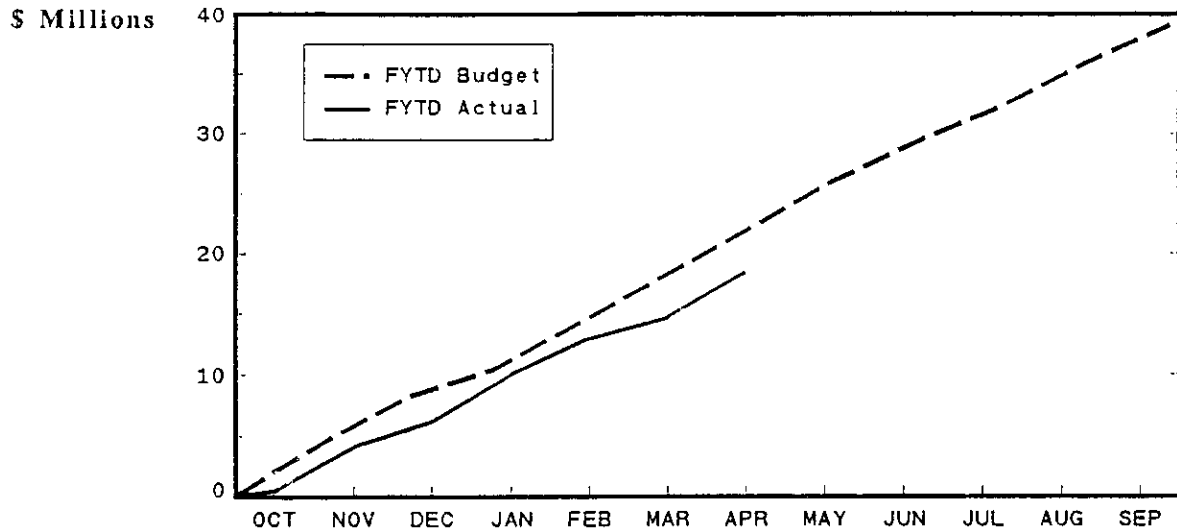
- Place cold cap material in vault 101.
- Continue characterization activities for DST 241-AP-102 in preparation of a data package to be sent to the Washington State Department of Ecology (Ecology).
- Complete Grout Treatment Facility capacity study. This study will analyze the logistics on the number of vaults to be filled each year.
- Develop vault 102 campaign plan, which will define the operating envelope.



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FY 1993



FYTD Budget	2.7	6.6	9.9	11.9	15.2	18.5	20.3	24.5	27.7	30.5	34.0	37.2
FYTD Actual	0.5	4.2	6.2	10.2	12.5	14.7	17.9					
Spending Var	2.2	2.4	3.7	1.7	2.7	4.1	2.4					

Variance Explanation: The cost underrun results from delays in the final safety analysis report review work package, delays in operational readiness resulting from resource availability, and change from DST 241-AW-101 formulation resulting from placement on the "watch list" to DST 241-AP-105 for grouting of vault 103. Contract personnel are beginning the compliance assessment phase of the readiness review. Portable instrument house and vault ventilation system have been installed at the vault site.

- Incorporate M-02-05 into Tri-Party Agreement negotiations associated with new technical strategy. Expected completion of Tri-Party Agreement milestones, including public review, is December 1993. This would involve issuing a change request.

#### MILESTONE STATUS/PROBLEMS/ISSUES

- Reanalysis of target milestone M-02-00-T07 ("Initiate Settling Tests for Neutralized Current Acid Waste In-Tank Solids Washing") shows this work can be delayed without impacting pretreatment work. Negotiations with Ecology have begun to allow a 1-year delay of this milestone.
- The TWRS rebaselining study was completed in March and draft documents were distributed to DOE, its contractors, and the regulators. A 6-month public participation period has begun to allow public review and comment before agreements are reached with the regulators. The process will include public meetings, workshops, and the formation of a "task force" of potentially affected individuals that will review the study and provide comments to the three parties.

MAJOR MILESTONE: M-02-00  
 STATUS FOR END OF MONTH: MARCH 1993

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: TBD

PROJECTED DATE: TBD

**DESCRIPTION:** Initiate pretreatment of DST waste. DST waste must be pretreated before it can be disposed. Pretreatment supports the removal, treatment, and final disposal of DST wastes subject to land disposal restrictions (LDRs). Removing the wastes from the DSTs and disposing of them in grout or glass will free DST space for single-shell tank (SST) waste.

#### PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-02-03	Submit tank waste remediation system (TWRS) baseline scope, cost, and schedule.	8/31/93	8/31/93
M-02-05	Incorporate additional interim milestones to support pretreatment of DST waste.	8/31/93	8/31/93

#### ACCOMPLISHMENTS

- Issued report on neutralized current acid waste transuranic-extraction (TRUEX) laboratory development (M-02-00-T3) (document PNL-8558).
- Issued engineering study of cesium ion exchange (M-02-00-T4).
- Issued blending study for first 20 tanks (M-02-00-T5) (document PNL-8589).
- Issued pretreatment technology plan, which includes technology plan for selection of actinide separation process (M-02-00-T6) (document WHC-EP-0629).

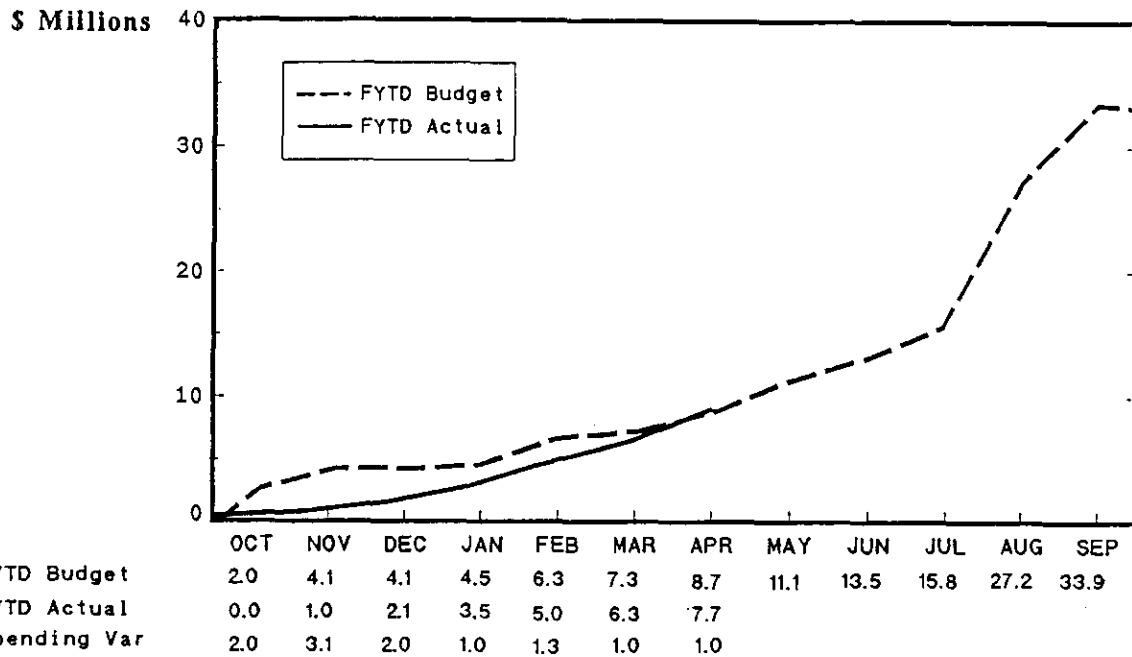
#### PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Issue final drafts of TWRS baseline documents for external review (M-02-03):
  - Functions and requirements documents
  - Integrated technology plan
  - TWRS program plan
  - TWRS program management plan.
- Issue Tank Waste Technical Options Report (Supports M-02-03).

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FY 1993



Variance Explanation: The cost underrun results from schedule delays on Project W-151, "DST 241-AZ-101 Retrieval Systems," and Project W-211, "Double-Shell Tank Retrieval Systems," and selection of the architect-engineer on Project W-236B, "Initial Pretreatment Module." Costs have not been incurred at the planned rate. The spending variance will be reduced by increased emphasis on acquiring staff now that the head-count ceiling has been eased.

The annual budget for the Westinghouse Hanford Company (WHC) portion of the M-02-00 work scope was reduced by \$6 million from the December 1992 report as a result of the transfer of funds from WHC to Pacific Northwest Laboratory.

**MILESTONE STATUS/PROBLEMS/ISSUES**

- Start of construction of the Vitrification Building foundation, Milestone M-03-05, has been suspended for 6 months. The 6-month period will be used for public review of the proposed TWRS rebaselining and for negotiating of potential changes to the milestones in the agreement.

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**MAJOR MILESTONE: M-03-00**  
**STATUS FOR END OF MONTH: APRIL 1993**

DOE DIRECTOR: R. W. Brown

MANAGER: R. A. Smith

BASELINE DATE: December 1999

PROJECTED DATE: June 2000

DESCRIPTION: Initiate Hanford Waste Vitrification Plant (HWVP) Operations.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
M-03-05	Initiate construction of the Vitrification Building foundation.	3/93	9/93

**ACCOMPLISHMENTS**

- Awarded contract for temporary construction warehouse.
- Completed widening and paving of Route 4S to improve site access during construction.
- Initiated detailing of reinforcing steel for the Canister Storage Building.
- Developed plan and received change request approval to proceed with second phase of the increased HWVP throughput capacity study.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

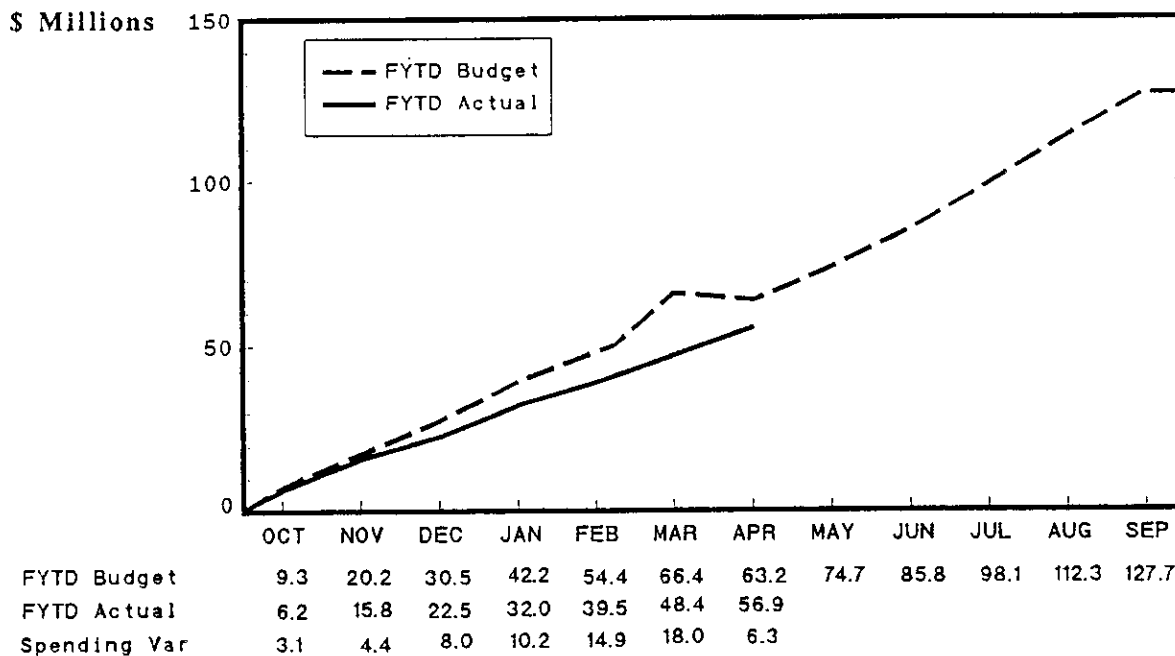
- Solicit bids, award subcontract, and initiate installation of mechanical site utilities.
- Complete Phase II of the HWVP total operating efficiency (TOE) evaluation, verifying Phase I.
- Continue study to increase the throughput capacity of the HWVP.
- Initiate installation of temporary construction power distribution system.
- Initiate construction of the OAB/TOB.
- Initiate construction of the Canister Storage Building.



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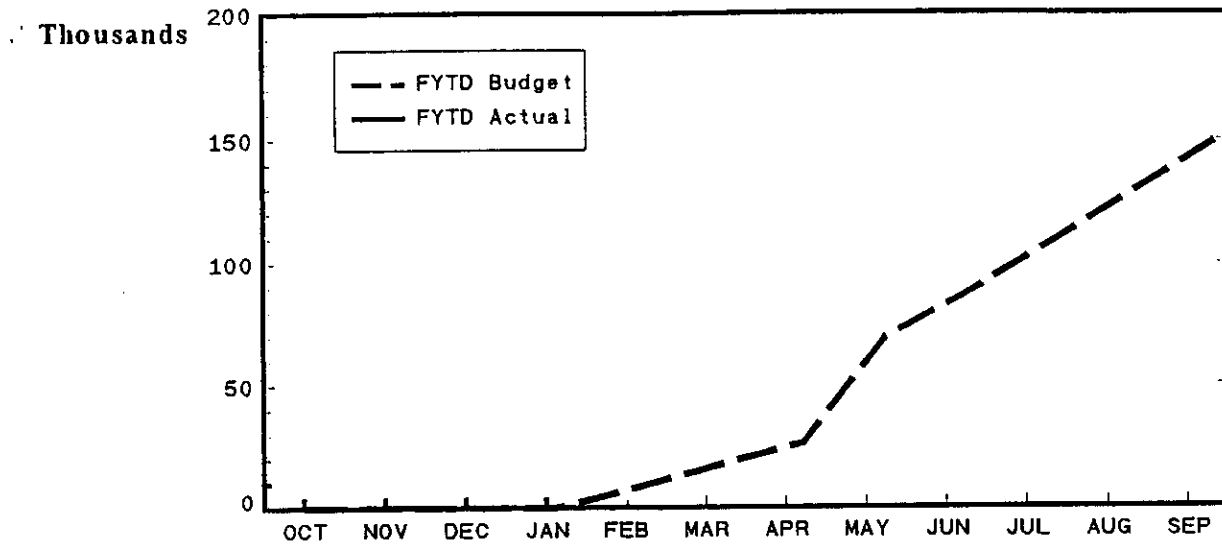
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Variance Explanation: UCAT is underspent because planned site construction packages and equipment procurements have been delayed because of delayed key decisions and subcontractors not progressing as scheduled. Also contributing to the spending variance is the delay in initiating construction of the vitrification building foundation and lower staffing levels and associated costs for construction management.

Please note that an adjustment to March's financial data is being made in this report on this milestone only. At the time of the March report actual data was not available, so estimated budget and cost were used. Changes are slight and did not affect the spending variance or the variance explanation found in the March report.

Please also note that Change request HWVP-0713 was implemented to replan the Fluor budget. This was to make it consistent with design completion in December 1994 and to reschedule a portion of the FY 1993 work to FY 1994. This accounts for the September budget decrease from \$141.3 million in the March report to \$127.7 million in this reporting period.



FYTD Budget	0.0	0.0	0.0	0.0	8.9	17.7	26.6	69.2	87.2	107.7	128.1	148.6
FYTD Actual	0.0	0.5	0.5	0.5	0.7	0.7	2.8					
Spending Var	0.0	(0.5)	(0.5)	(0.5)	8.2	17.0	23.8					

Variance Explanation: The September budget decreased \$2,200 from \$150,800 in March to \$148,600 in April. This decrease caused the Budget Baseline Summary chart, which is rounded to thousands, to go from \$200,000 to \$100,000. The Budget Baseline Summary table, which is rounded to millions, indicates zero for FY to date Budget and FY to date Actual.

MAJOR MILESTONE: M-04-00  
STATUS FOR END OF MONTH: APRIL 1993

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: September 30, 1993

PROJECTED DATE: September 30, 1993

DESCRIPTION: Provide annual reports of tank waste treatability studies.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
M-04-00D	Provide annual report of tank waste treatability studies.	09/93	09/93

ACCOMPLISHMENTS

- A contract with Los Alamos Technical Associates for an onsite report preparation coordinator was resumed. A memorandum identifying contributors, presenting report outline, and requesting input was issued.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Prepare and issue annual report.

MILESTONE STATUS/PROBLEMS/ISSUES

- Nothing significant to report.

- Issue schedule for completing Operations Supervisor and Shift Manager training (M-05-17C).
- Complete safety analysis report addendum to allow alternative methods for transfer of RAD waste within SST farms. This report is currently in RL for review.
- Complete integrity assessment of waste transfer lines.
- Continue restoration of double-contained receiver tank 244-U.

#### MILESTONE STATUS/PROBLEMS/ISSUES

- On April 1, 1993, SST 241-BX-111 was declared an assumed re-leaker. Steps are under way to identify the best method for reducing the drainable liquid to a level that will cease discharging waste to the surrounding soils. This tank was declared an assumed leaker in 1984.
- A "Creation of Danger," as defined in Article 31 of the Tri-Party Agreement, was declared on January 28, 1992. For personnel safety reasons, a work restriction was placed on all SST farms, and fresh air is required to operate within the boundaries of three farms. On February 28, 1992, all waste transfers in the 200-Area tank farms were halted because of concerns on fissile material inventory. The cessation on waste transfers continues. The impacts to the Tri-Party Agreement will result in a proposed Tri-Party Agreement change request.
- A safety question was raised about the hazards associated with removing liquid from SSTs and the resultant drying of the wastes, thus potentially causing increases in tank content temperatures. Analyses and studies continue on this question.
- This milestone is being re-evaluated under the New Technical Strategy of the TWRS; therefore, this milestone is subject to modification under the TWRS negotiations. A public involvement program is in place, and plans to renegotiate this milestone are under development by the three parties.

**MAJOR MILESTONE: M-05-00**  
**STATUS FOR END OF MONTH: APRIL 1993**

DOE DIRECTOR: R. E. Gerton

MANAGER: R. E. Raymond

BASELINE DATE: September 1995

PROJECTED DATE: TBD

DESCRIPTION: Complete SST interim stabilization.

**PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
M-05-03	Interim stabilize an additional four SSTs.	9/91	TBD
M-05-04	Interim stabilize an additional nine SSTs.	9/92	TBD
M-05-05	Interim stabilize an additional 11 SSTs.	9/93	TBD
M-05-17B	Complete Nuclear Operator training.	12/93	12/93
M-05-17C	Provide schedule for completing Operations Supervisor and Shift Manager training.	6/93	6/93

**ACCOMPLISHMENTS**

- Completed the pumping (removal of liquids) from SST 241-T-101 and declared the tank interim stabilized.
- Completed the spectral gamma logging of the 14 dry wells around SSTs 241-C-105 and -106. This activity completed target milestone M-05-13-T2. This was the last required activity before completing interim milestone M-05-13, thus requiring the upgrade of leak detection capabilities around the same two tanks.
- Commenced planning for emergency pumping of assumed leaking SST 241-BX-111 and pumping neighboring SST 241-BX-110. A Tri-Party Agreement Change Control Form has been discussed which would add the start of pumping SST 241-BX-111 in August 1993 as a new interim milestone.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

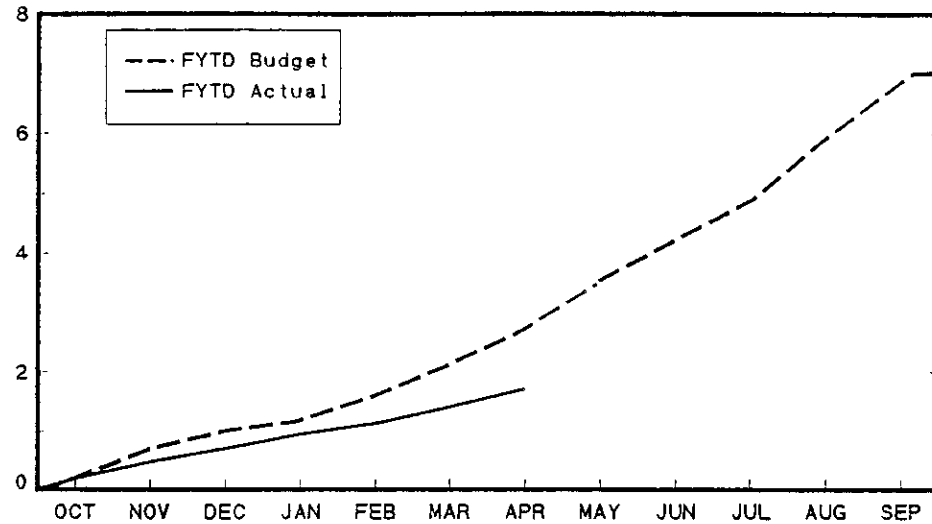
- Initiate emergency pumping of SST 241-BX-111 and pumping of SST 241-BX-110.

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FY 1993

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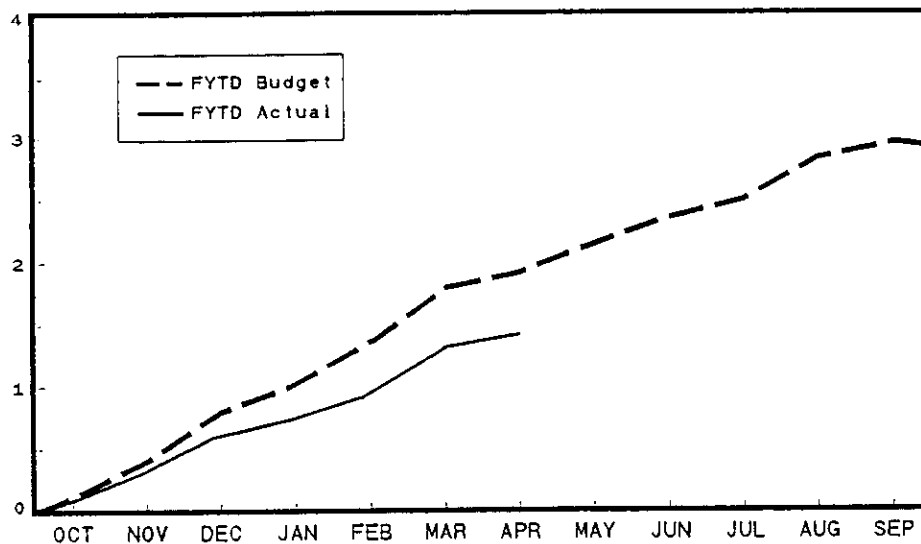
FYTD Budget	0.4	0.8	1.3	1.4	1.8	2.4	2.6	3.4	4.1	4.8	5.8	7.0
FYTD Actual	0.1	0.4	0.6	0.9	1.1	1.4	1.8					
Spending Var	0.3	0.4	0.7	0.5	0.7	0.9	0.8					

Variance Explanation: The cost underrun is a result of ongoing SST 241-T-101 emergency corrective actions. These activities, which were not in the original FY 1993 baseline, have deferred resources from stabilization and isolation work scope to prepare SST 241-T-101 for emergency pumping. Additional resources (Kaiser Engineers Hanford) have been obtained to support SST stabilization and isolation for the FY 1993 work scope.



FY 1993

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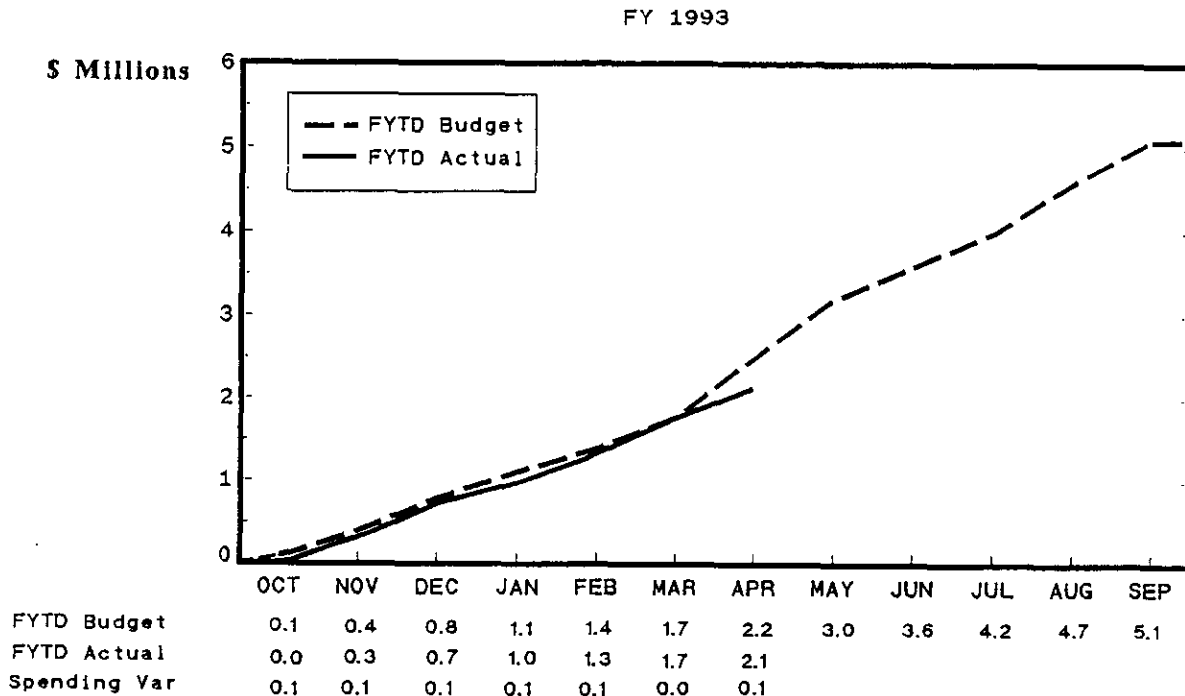
FYTD Budget	0.1	0.4	0.8	1.0	1.4	1.6	1.9	2.1	2.3	2.5	2.8	2.9
FYTD Actual	0.1	0.3	0.6	0.7	1.0	1.3	1.4					
Spending Var	0.0	0.1	0.2	0.3	0.4	0.5	0.5					

Variance Explanation: The cost overrun results from delays in subcontracts placement, delays in startup caused by a staffing shortage, and delays in anticipated procurements.

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retrieval demonstration under M-07 will use sluicing technology. Significant development work is required before deployment of additional retrieval technologies. The long-reach manipulator system (or alternative technology) will be deployed to complete the retrieval demonstration if sluicing cannot achieve the 95 percent waste retrieval criteria for the M-07 demonstration.

- The preliminary studies on subsurface barriers indicates this technology to be in its infancy. The potential that subsurface barriers be required as part of this milestone will practically ensure that the milestone could not be met as scheduled.
- This milestone is being re-evaluated under the New Technical Strategy of the TWRS; therefore, is subject to modification under the TWRS negotiations. A public involvement program is in place, and plans to renegotiate this milestone are under development by the three parties.



**MAJOR MILESTONE: M-07-00**  
**STATUS FOR END OF MONTH: APRIL 1993**

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: October 1997

PROJECTED DATE: October 1997

DESCRIPTION: Initiate full-scale demonstration of waste retrieval technology.

**PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
None.			

**ACCOMPLISHMENTS**

- On April 28, 1993, Ecology submitted its concurrence with the selection of SST 241-C-106 as the first SST for retrieval and concurrence with limited sluicing as the initial method for waste retrieval from this tank. This action completes the requirements of interim milestone M-07-02.
- RL and its contractors completed cost estimates and baseline schedules for the sluicing retrieval project for SST 241-C-106. Completed the project validation reviews through HQ.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

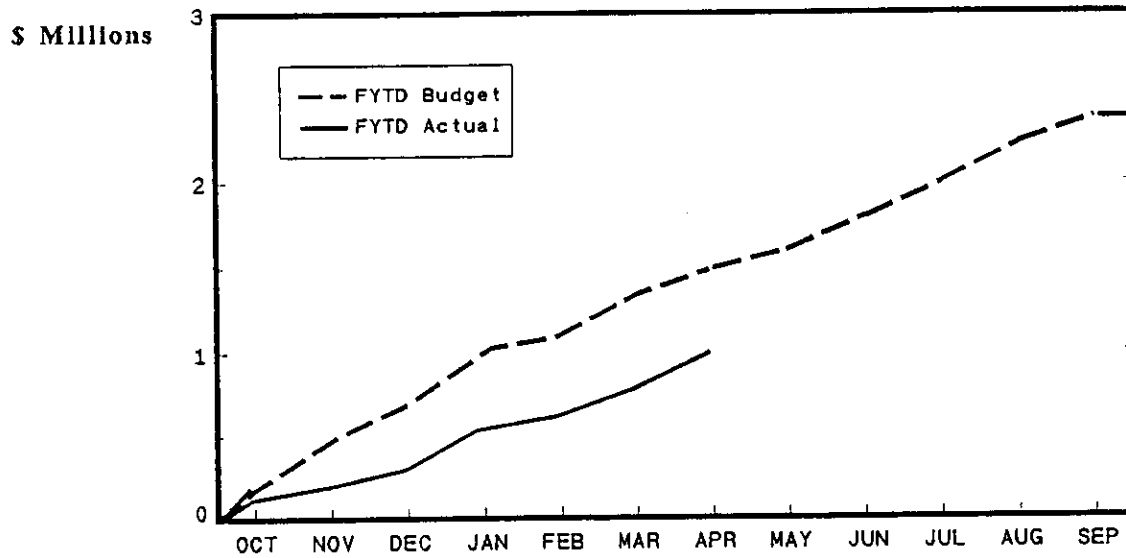
- Develop a detailed plan for M-07-00 achievement, integrated with milestone M-06-00 ("Develop SST Waste Retrieval Technology") and the Underground Storage Tank Integrated Demonstration activities. Propose revisions to the M-07 interim milestones based on the detailed schedules.
- Commence environmental and regulatory compliance documentation as required by Resource Conservation and Recovery Act (RCRA), *Washington Clean Air Act of 1967*, and *National Environmental Policy Act (NEPA)*.
- Develop and present to the regulators a position paper on regulatory compliance issues emanating from the tank waste retrieval program.

**MILESTONE STATUS/PROBLEMS/ISSUES**

- Preliminary assessments of the impacts of performing NEPA analyses (environmental assessment or environmental impact statement) suggest that NEPA could pose substantial schedule risk to this program.
- The preliminary strategy for SST retrieval includes two reference technologies: sluicing and long-reach manipulator systems. The

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FY 1993



FYTD Budget	0.2	0.4	0.7	1.0	1.1	1.3	1.4	1.6	1.8	2.0	2.3	2.4
FYTD Actual	0.0	0.2	0.3	0.5	0.6	0.8	1.0					
Spending Var	0.2	0.2	0.4	0.5	0.5	0.5	0.4					

Variance Explanation: The cost underrun results from manpower restrictions that have delayed start of a number of activities. Also, delays in tank leak studies (Phase II), startup activities, impacted by delayed comment resolution and incorporation in the tank leak studies (Phase I) have caused reduced expenditures. Tank leak studies (Phase II) began in March 1993 as scheduled.

MAJOR MILESTONE: M-08-00  
STATUS FOR END OF MONTH: APRIL 1993

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: June 2004

PROJECTED DATE: June 2004

DESCRIPTION: Initiate full-scale tank farm closure demonstration project.

## PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR NEXT 12 MONTHS

Milestone	Description	Baseline	Projected
None.			

## ACCOMPLISHMENTS

- Nothing significant to report.

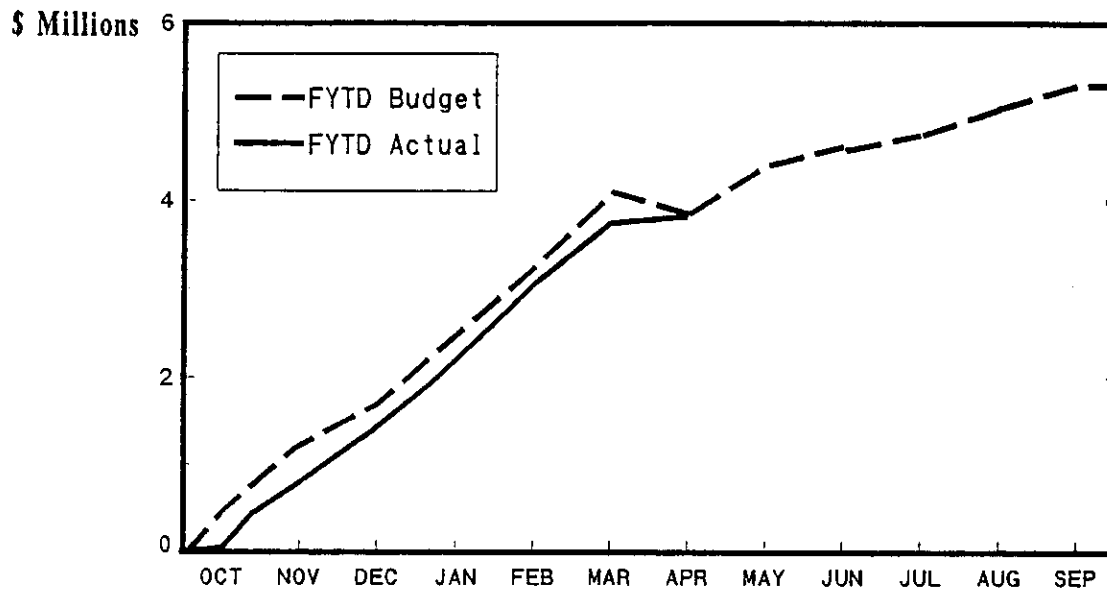
## PLANNED ACTIONS FOR THE NEXT 6 MONTHS

- Complete a tank farm retrieval program plan.
- Initiate Phase II of the subsurface barrier development study.

## MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.
- The preliminary studies on subsurface barriers indicates this technology to be in its infancy. The potential that subsurface barriers be required as part of this milestone could impact schedule performance.
- This milestone is being re-evaluated under the New Technical Strategy of the TWRS; therefore, it is subject to modification under the TWRS negotiations. A public involvement program is in place, and plans to renegotiate this milestone are under development by the three parties.

FY 1993



FYTD Budget	0.5	1.2	1.7	2.4	3.2	4.1	4.0	4.4	4.6	4.8	5.0	5.4
FYTD Actual	0.1	0.8	1.4	2.3	3.0	3.8	3.9					
Spending Var	0.4	0.4	0.3	0.1	0.2	0.3	0.1					

MAJOR MILESTONE: M-09-00  
STATUS FOR END OF MONTH: APRIL 1993

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Wintczak

BASELINE DATE: June 2018

PROJECTED DATE: June 2018

DESCRIPTION: Complete closure of all 149 SSTs.

**PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
None.			

**ACCOMPLISHMENTS**

- Met with the regulatory community to revise the NEPA strategy for the TWRS activities.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Continue to redefine SST waste disposal strategy under the TWRS Decision Plan.
- Issue to the Federal Register a notice of intent for the TWRS Environmental Impact Statement for tank remediation at the Hanford Site.
- Commence work on the next revision to the SST Closure/Corrective Action Work Plan, a precursor document for the SST Closure Plan.

**MILESTONES STATUS/PROBLEMS/ISSUES**

- This milestone is on schedule; however, it may be in jeopardy unless preclosure activities can be accelerated. Several activities require acceleration: Supplemental Environmental Impact Statement and Record of Decision preparation, SST Waste and Field Characterization, Technology Development, and concurrent permitting with facility design.
- This milestone is being re-evaluated under the New Technical Strategy of the TWRS; therefore, the milestone is subject to modification under the TWRS negotiations. A public involvement program is in place, and plans to renegotiate this milestone are under development by the three parties.

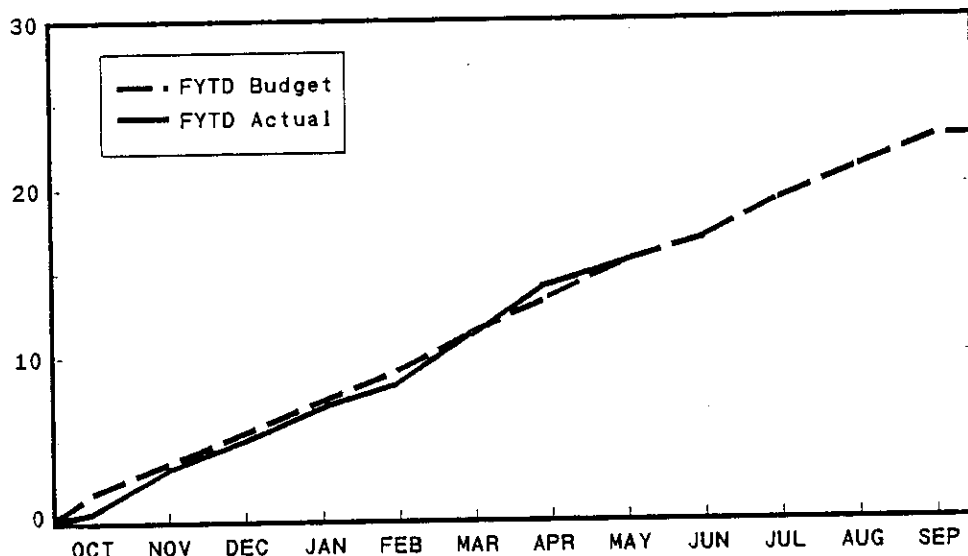


## MILESTONE STATUS/PROBLEMS/ISSUES

- The major milestone is on schedule; however, interim milestones M-10-07 through M-10-12 are under evaluation. Several actions can be taken to ensure meeting these milestones, both internal and in consonance with the regulators. These are being discussed with the regulatory community.
- The core sampling program is in a technical stand-down because of a possible problem with sample recovery. It has been observed that substantial amounts of liquids are being retrieved with the core samples where much less liquid is expected. Until this is resolved, no further core samples are being taken.
- This milestone is being re-evaluated under the New Technical Strategy of the TWRS; therefore, the milestone is subject to modification under the TWRS negotiations. A public involvement program is in place, and plans to renegotiate this milestone are under development by the three parties.

FY 1993

\$ Millions



FYTD Budget	1.7	3.7	5.6	7.7	9.6	11.4	13.4	15.5	17.4	19.2	21.3	23.5
FYTD Actual	0.6	3.1	4.9	6.9	8.7	11.4	14.3					
Spending Var	1.1	0.6	0.7	0.8	0.9	0.0	(0.9)					

Variance Explanation: The September budget increase from \$20.4 million in the March report to \$23.5 million in this report results from funding for laboratory analysis and operations to support the evaluation of SST core samples being received.

**MAJOR MILESTONE: M-10-00**  
**STATUS FOR END OF MONTH: APRIL 1993**

DOE DIRECTOR: R. E. Gerton

MANAGER: J. G. Propson

BASELINE DATE: September 1998

PROJECTED DATE: September 1998

DESCRIPTION: Complete analyses of at least two complete core samples from each SST.

**PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
M-10-07	Obtain 24 core samples from 12 SSTs.	9/93	9/93
M-10-13	Restore rotary model sampling capability at the Hanford Site.	9/93	9/93

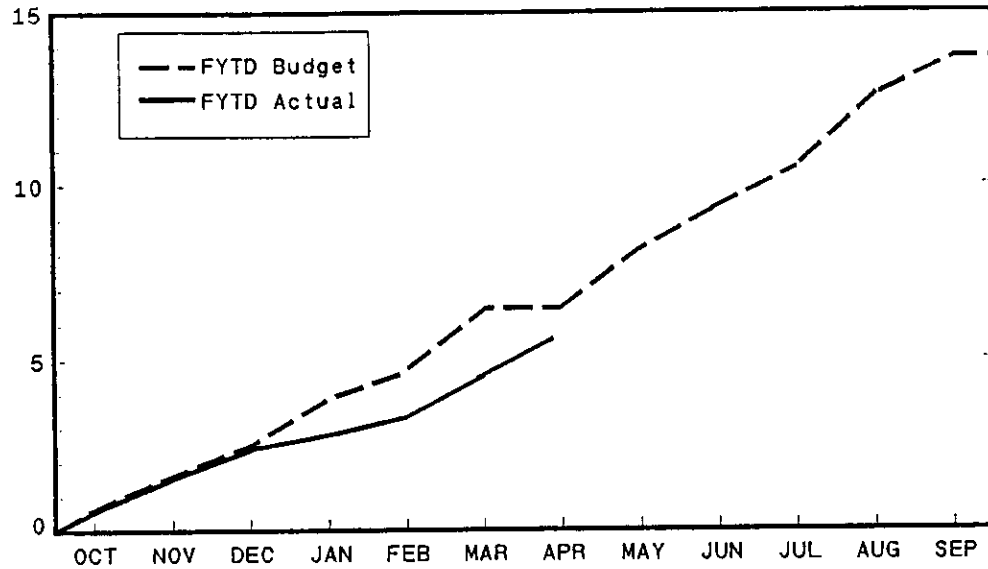
**ACCOMPLISHMENTS**

- Obtained three core samples from SST 241-T-107: two cores for SST 241-T-102 and two cores for SST 241-T-105.
- Continued discussions with the regulators on a new HQ direction that proposes the SST Characterization Program and associated Tri-Party Agreement milestones be reevaluated to reflect retrieval requirements. Characterization data is required to (1) resolve tank safety issues, (2) develop retrieval technologies, and (3) identify pretreatment technologies. Once agreement is reached on this new baseline, the changes will need to be reflected in the Tri-Party Agreement major milestone M-10-00.
- Completed the redesign of the exhaustor system to support the rotary mode sampling system. This much reduced exhaustor will meet all applicable safety requirements, and is still considerably less complex, smaller, and more portable than the earlier design.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Obtain core samples from SSTs 241-C-106, -C-108, -C-111, and -T-101. All of these tanks are safety issue tanks.
- Continue rotary mode sampling testing and implementation.
- Issue the TWRS Waste Characterization Plan. This rewrite of the SST Waste Characterization Plan will incorporate all TWRS requirements into a single plan.

\$ Millions



FYTD Budget	0.8	1.6	2.6	3.9	4.7	6.5	6.5	8.1	9.1	10.4	12.6	13.7
FYTD Actual	0.6	1.5	2.4	2.8	3.4	4.5	5.7					
Spending Var	0.2	0.1	0.2	1.1	1.3	2.0	0.8					

Variance Explanation: The variance results from noncritical path construction activities being slowed down on Project W-001, "222-S Vent and Electrical System Upgrade," to extend available funds. Additionally, procurement costs for W-001 are coming in later than planned.

**MAJOR MILESTONE: M-11-00**  
**STATUS FOR END OF MONTH: APRIL 1993**

DOE DIRECTOR: J. M. Hennig

MANAGER: M. L. Bell

BASELINE DATE: June 1994

PROJECTED DATE: June 1994

**DESCRIPTION:** Complete construction and initiate operations of expanded laboratory hot cells for high-level radioactive mixed waste.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
None.			

**ACCOMPLISHMENTS**

- Received all five analytical cells and the anteroom that connects them. Everything was moved into the building, and three of the cells were placed in their final positions. The remaining pieces are slightly out of position, pending installation of the load-in/load-out cell.
- Continued installation of duct work.

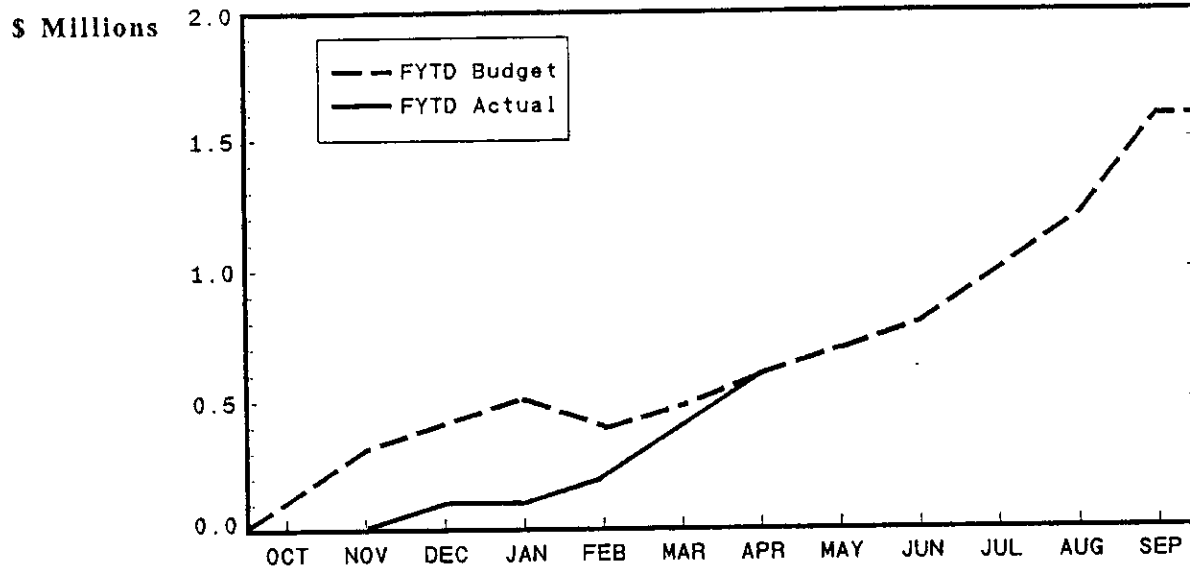
**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Receive final hot cell compartment, install it, and place remaining compartments in their final positions.
- Start installation of electrical, ventilation, and piped services in and around hot cell.
- Receive shielding windows and manipulators.

**MILESTONE STATUS/PROBLEMS/ISSUES**

- The Class III change request for target milestone M-11-00-T1 ("Complete Construction") was resubmitted to Ecology with the additional backup schedule information attached. The target date was changed from June 1993 to March 1994, with no impact to the major milestone date. This change results from the realignment of construction verses startup activities.

FY 1993



FYTD Budget	0.1	0.3	0.4	0.5	0.4	0.5	0.6	0.7	0.8	1.0	1.2	1.6
FYTD Actual	0.0	0.0	0.1	0.1	0.2	0.4	0.5					
Spending Var	0.1	0.3	0.3	0.4	0.2	0.1	0.1					

Variance Explanation: The cost underrun results from OU 100-BC-2 and 100-HR-2 work plans being prepared in-house by WHC personnel instead of an offsite subcontractor.

**MAJOR MILESTONE: M-13-00**  
**STATUS FOR END OF MONTH: APRIL 1993**

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Wintczak

**BASELINE DATE:** Annual beginning  
calendar year (CY) 1993

**PROJECTED DATE:** Annual beginning  
CY 1993

**DESCRIPTION:** Submit six remedial investigation/feasibility study (RI/FS) or RCRA facility investigation/corrective measures study (RFI/CMS) work plans each year.

**SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected*
M-13-01	Submit 100-BC-2 work plan.	5/21/93	5/21/93
M-13-03	Submit 100-HR-2 work plan.	6/93	6/93
M-13-04	Submit 200-ZP-1 work plan.	8/93	8/93
M-13-05	Submit 100 DR-2 work plan.	10/93	10/93
M-13-06	Submit 200-BP-5 work plan.	12/93	12/93

**ACCOMPLISHMENTS**

- Submitted the operable unit (OU) 200-UP-1 Draft A work plan to the regulators on April 30, 1993. This completes Tri-Party Agreement interim milestone M-13-02.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

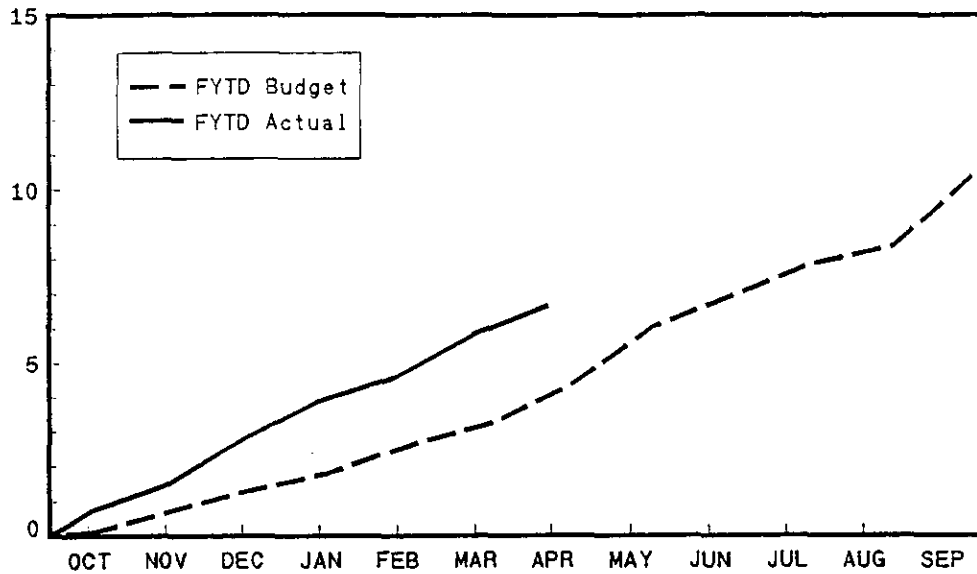
- Submit the OU 100-BC-2 work plan to the regulators for review.
- Submit the OU 100-HR-2 work plan to the regulators for review.
- Submit the OU 200-ZP-1 work plan to the regulators for review.
- Continue to resolve comments on the OU 200-UP-2 work plan with the regulators.
- Continue to resolve scheduling conflicts between N Operations and environmental restoration for the OU 100-NR-1 and 100-NR-2 work plans.

**MILESTONE STATUS/PROBLEMS/ISSUES**

- This milestone is on schedule.

FY 1993

\$ Millions



FYTD Budget	0.1	0.7	1.3	1.8	2.4	3.1	4.2	5.9	6.9	8.2	8.6	10.2
FYTD Actual	0.7	1.5	2.8	3.9	4.5	5.8	6.7					
Spending Var	(0.6)	(0.8)	(1.5)	(2.1)	(2.1)	(2.7)	(2.5)					

Variance Explanation: The cost overrun results from the exclusion of preceding years' capital budgets. Spending rates continue as planned to support the April 1994 waste sampling characterization facility startup. With preceding years' capital budget included, trends indicate that this project will be completed at the approved project budget level.

**MAJOR MILESTONE: M-14-00**  
**STATUS FOR END OF MONTH: APRIL 1993**

DOE DIRECTOR: J. M. Hennig

MANAGER: M. L. Bell

BASELINE DATE: October 1995

PROJECTED DATE: October 1995

DESCRIPTION: Provide low-level mixed waste laboratory services.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
M-14-02	Complete construction of a 27-module Waste Sampling and Characterization Facility (WSCF).	10/93	10/93
M-14-03	Initiate WSCF operations.	4/94	4/94

**ACCOMPLISHMENTS**

- Maintained construction on schedule. Continued interior finishing work. Completed exterior work on curbs, sidewalks, and pads.
- Auxiliary Structures:
  - Installed roof and walls of EDRTS (6270).
  - Completed frame of MLS (6269).
  - Completed foundation and floor of EAS (6267).
  - Completed foundation and floor of utility (6265).
  - Started foundation of SWS (6265A).
- Received proposals for commercial laboratory contract.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Complete WSCF construction. Receive and install laboratory modules.
- Continue preparations for award of a commercial laboratory contract per M-14-04 (*Target date: July 1993*).

**MILESTONE STATUS/PROBLEMS/ISSUES**

Nothing significant to report.



Milestone	Description	Baseline	Projected
M-15-10A	Submit validated data of all sampling activities associated with Sections 5.1.1.2, "Source Investigation," and 5.1.1.5, "Vadose Zone Investigation," for OU 100-KR-1 to Ecology and EPA.	10/31/93	10/31/93
M-15-11B	Submit OU 100-KR-4 Limited Field Investigation Report to Ecology and EPA.	1/12/94	1/12/94
M-15-13A	Submit validated data of all sampling activities associated with Sections 5.1.1.2, "Source Investigation," and 5.1.1.5, "Vadose Zone Investigation," for OU 100-FR-1 to Ecology and EPA.	11/31/93	11/31/93
M-15-13E	Submit validated data of all sampling activities associated with Section 5.1.1.6, "Groundwater Investigation," for OU 100-FR-3 to Ecology and EPA.	6/14/93	6/14/93
M-15-13F	Submit OU 100-FR-3 Limited Field Investigation Report to Ecology and EPA.	4/14/94	4/14/94

#### ACCOMPLISHMENTS

- Dispositioned all RI/FS comments for OUs 1100-EM-2, 1100-EM-3, and 1100-IU-1.
- Consolidated OUs 1100-EM-2, 1100-EM-3, and 1100-IU-1 into Volume 4 of the 1100 Area RI/FS.
- Submitted validated data for the second quarter groundwater monitoring at OU 100-BC-5 to RL.
- Submitted the qualitative risk assessment report to RL for OU 100-DR-1.
- Completed the second round of groundwater sampling on April 5, 1993, for OU 100-FR-3.
- Completed excavation of four test pits at OU 100-FR-1.
- Submitted soil data validation report for OU 100-NR-2 groundwater to RL and regulators.
- Completed surface sampling at OU 100-NR-1.

**MAJOR MILESTONE: M-15-00**  
**STATUS FOR END OF MONTH: APRIL 1993**

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Winctzak

BASELINE DATE: September 2005

PROJECTED DATE: September 2005

DESCRIPTION: Complete the RI/FS or RCRA RFI/CMS process for all OUs.

**SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
M-15-02D	Submit draft Phase I, II, and III FS for 200-BP-1 source areas.	6/30/93	6/30/93
M-15-02E	Submit draft barrier constructability report to U.S. Environmental Protection Agency (EPA) and Ecology	1/31/94	1/31/94
M-15-03B	Submit RI Phase II report for 300-FF-1 to EPA and Ecology.	12/31/93	12/31/93
M-15-04A	Submit draft 300-FF-5 F/S Phase I and II report to EPA and Ecology.	7/15/93	7/15/93
M-15-05A	Submit OU 100-HR-1 Limited Field Investigation Report to Ecology and EPA.	8/9/93	8/9/93
M-15-05B	Complete OU 100-HR-1 Treatability Study Activities.	11/30/93	11/30/93
M-15-06A	Submit OU 100-HR-3 Limited Field Investigation Report to Ecology and EPA	10/31/93	10/31/93
M-15-06B	Complete OU 100-HR-3 Treatability Study Activities.	11/30/93	11/30/93
M-15-08B	Submit OU 100-BC-1 Limited Field Investigation Report to Ecology and EPA.	7/31/93	7/31/93
M-15-08C	Submit OU 100-BC-1 Treatability Study Report to Ecology and EPA.	1/31/94	1/31/94
M-15-09B	Submit OU 100-BC-5 Limited Field Investigation Report to Ecology and EPA.	8/31/93	8/31/93

- Submit the LFI to RL May 31, 1993, and to the regulators August 31, 1993, for OU 100-BC-5.
- Submit the LFI report to RL and regulators August 9, 1993, for OU 100-DR-1.
- Obtain regulator approval of Tri-Party Agreement milestone M-15-92-6 establishing RI/FS interim milestones for OU 100-DR-1 in May 1993.
- Submit the OU 100-HR-3 LFI report to the regulators October 31, 1993.
- Complete the definitive design of the Hanford Prototype Barrier early June 1993.
- Submit the OU 200-BP-1 FS I, II, II report to the regulators June 30, 1993, thus completing Tri-Party Agreement milestone M-15-02D.
- Transmit OU 300-FF-1 Soil Washing In-House Test Plan to RL and regulators in early May 1993.
- Begin field activities for soil washing test the end of May at OU 300-FF-1.
- Submit the OU 300-FF-5 Draft FS Phase I and II report to EPA and Ecology completing Tri-Party Agreement Milestone M-15-04A scheduled for July 1993.
- Issue the 300-FF-5 RI Phase I report to the regulators completing (M-15-04-T1) scheduled for July 1993.

#### MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.
- Issue: Outstanding regulatory issues surrounding the excavation of the treatability (test site selected for the test and interim storage of the material once it has been retrieved). Ecology transmitted a letter to RL concerning these issues and are raising additional requirements that must be resolved to proceed with this test.
- All issues must be resolved:
  - The test plan approved by the regulatory agencies
  - Submit fact sheet for public review by June 1, 1993
  - Complete Tri-Party Agreement interim milestone M-15-05B ("OU 100-HR-1 Treatability Study Activities") by November 30, 1993, may be in jeopardy.

- Submitted the OU 200-BP-1 FS I, II, and III report to RL on April 30, 1993.
- Submitted the OU 200-BP-1 Barrier Treatability Test Plan to RL for review April 28, 1993.
- Submitted a Tri-Party Agreement change request (C-93-038) for OU 200-UP-2 to RL and regulators providing aggregate area reassignment of waste management units based on aggregate area management study report recommendations.
- Received delivery of the trommel and the 200 gal/min water treatment for Soil Washing Treatability equipment and various miscellaneous pieces from EPA for 300-FF-1.
- Submitted the 300-FF-1 revised FS Phase I/II Report to RL.
- Submitted the 300-FF-5 Draft RI Phase I report to RL.

#### PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

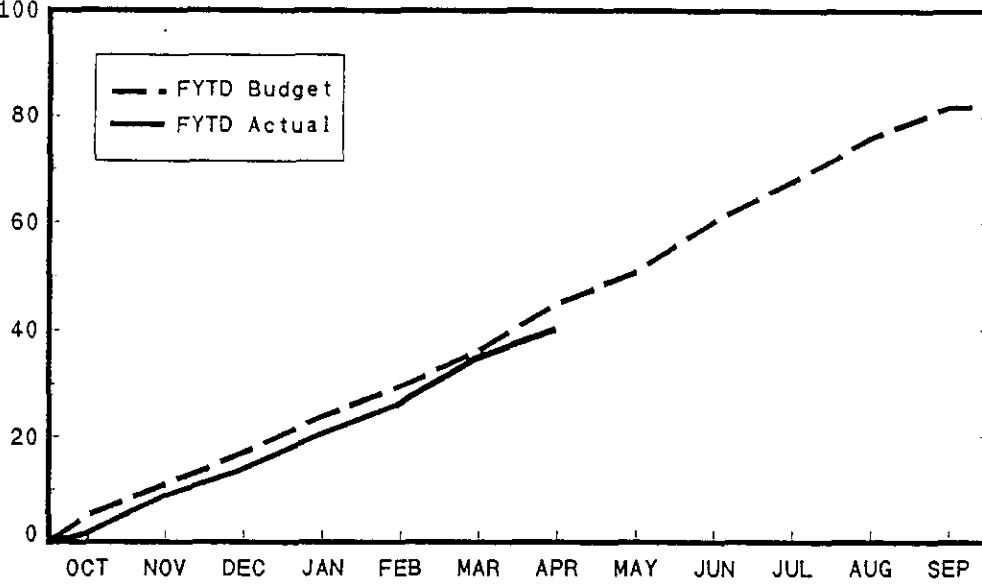
- Complete volume 4 for the OU 1100-EM-1, 1100-EM-2, 1100-EM-3, and 1100-IU-1 RI/FS and Proposed Plan to be released for public review and comment in mid-May.
- Issue the ROD for 1100-EM-1, 1100-EM-2, 1100-EM-3, and 1100-IU-1 (1100 Area Consolidated RI/FS Report) mid-September.
- Finalize and review comments on 1100 Area proposed plan.
- Submit validated data of all sampling activities, "Groundwater Investigation," for OU 100-FR-3 by June 14, 1993.
- Submit OU 100-HR-1 limited field investigation (LFI) report to Ecology and EPA by August 9, 1993.
- Complete the resolution of comments on the 200 North and semiworks aggregate area management study reports by the end of May.
- Complete the eighth round of groundwater sampling by August 1993 for OU 200-BP-1.
- Submit OU 200-BP-1 combined FS Phases I, II, and III reports to the regulators by June 30, 1993, to complete Tri-Party Agreement interim milestone M-15-02D.
- Submit OU 300-FF-5 draft RI Phase I report and the FS Phases I and II reports mid-July 1993 to complete Tri-Party Agreement milestones M-15-4T1 and M-15-04A.
- Submit the 100-BC-1 LFI report to RL by May 31, 1993.
- Perform limited field investigation in July at the two sites (116-C-2A Pluto Crib and 116-C-2C Sand Filter) for OU 100-BC-2.

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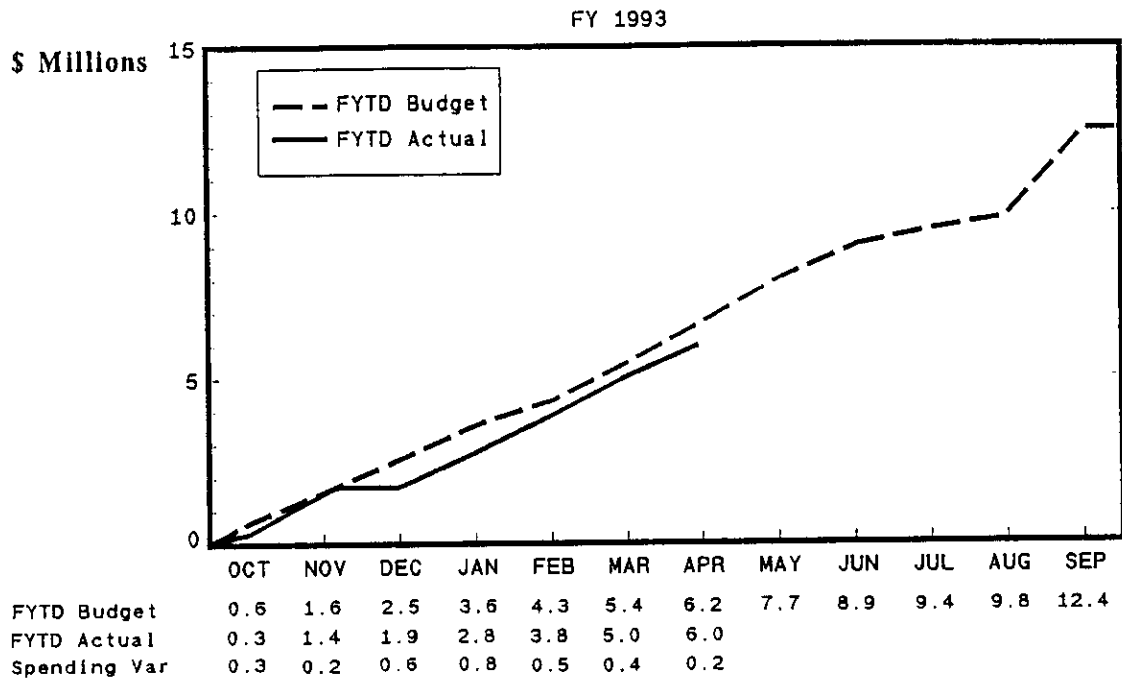
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FY 1993

\$ Millions 100



FYTD Budget	4.6	11.0	17.2	24.7	29.9	38.5	44.8	52.0	60.0	67.7	76.4	83.7
FYTD Actual	2.3	9.1	14.3	21.2	27.2	34.7	41.5					
Spending Var	2.3	1.9	2.9	3.5	2.7	3.8	3.3					



**MAJOR MILESTONE: M-16-00**  
**STATUS FOR END OF MONTH: APRIL 1993**

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Wintczak

BASELINE DATE: September 2018

PROJECTED DATE: September 2018

DESCRIPTION: Complete the remedial actions for all OUs.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
None.			

**ACCOMPLISHMENTS**

- Completed Sodium Dichromate ERA excavation; approximately 5,000 drums were removed.
- Submitted the N Springs expedited response action (ERA) proposal to RL.
- Submitted the Riverland ERA proposal to RL and regulators.
- Continued operations at the carbon tetrachloride ERA; 5,989 pounds of carbon tetrachloride have been removed from the site.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Begin public review of the Riverland ERA proposal on May 3, 1993.
- Submit White Bluffs Pickling Acid Crib ERA to RL in June.
- Remediate the Riverland Rail site by September 1993.
- Complete disposal of remaining drums (four) from sodium dichromate that are considered hazardous waste.
- Reseed and revegetate this fall at the sodium dichromate ERA.

**MILESTONE STATUS/PROBLEMS/ISSUES**

- This milestone is on schedule.

9 1 0 0 1 7 0 7



- Received Ecology approval to initiate construction for the 200 Area Treated Effluent Disposal Facility (Project W-049H) collection system.
- Received Ecology approval to initiate construction of the 200 Area Effluent Treatment Facility (Project C-018H) process buildings.

#### PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Initiate construction of the 300 Area Treated Effluent Treatment Facility. Construction start is tentatively scheduled for June 1993.
- Initiate construction of the 200 Area Treated Effluent Disposal Facility (Project W-049H) collection system. Construction start is tentatively scheduled for late Spring 1993.
- Submit final design on the 300 Area Treated Effluent Disposal Facility (Project L-045H) to EPA and Ecology for approval (M-17-09A).
- Submit groundwater assessment plans to EPA and Ecology for Liquid Wastewater Disposal Facility 1325-N, Crib 216-W-LWC, Powerhouse Pond 284-W, and Pond 2101-M by September 1993 (M-17-13).
- Submit the groundwater assessment plans to EPA and Ecology for the Crib 216-U-17 by June 1993 and the 100-D Ponds by July 1993 (M-17-13).
- Submit the State Waste Discharge permit application to Ecology for the 200 Area Effluent Treatment Facility (Project C-018H) disposal site.
- Submit the 80% design report to EPA and Ecology for the 200 Area Effluent Treatment Facility (Project C-018H) disposal site and treatment facility.
- Submit the addendum to the WAC 173-240 Engineering Report to Ecology for the 200 Area Effluent Treatment Facility (Project C-018H). The addendum will address pilot plant test results.
- Submit the addendum to the WAC 173-240 Engineering Report to Ecology for the 200 Area Treated Effluent Disposal Site (Project C-018H) disposal site characterization work plan. This report will transmit the results of the site characterization activities for the 200 Area Treated Effluent Disposal Site (Project C-018H).
- Obtain Key Decision 1, approval to proceed with Advanced Conceptual Design, from HQ for Project W-252, "200 Area Phase II Stream Treated Effluent Disposal Facility."

#### MILESTONE STATUS/PROBLEMS/ISSUES

- The milestone is on schedule.
- Compliance with all effluent flow restrictions contained in Tri-Party Agreement milestone M-17 have been maintained.

**MAJOR MILESTONE: M-17-00**  
**STATUS FOR END OF MONTH: APRIL 1993**

DOE DIRECTOR: J. M. Hennig

MANAGER: D. E. Kelley

M-17-00A:

BASELINE DATE: June 1995

PROJECTED DATE: June 1995

**DESCRIPTION:** Complete liquid effluent treatment facilities and upgrades for Phase I effluents.

M-17-00B:

BASELINE DATE: October 1997

PROJECTED DATE: October 1997

**DESCRIPTION:** Implement best available technology/all known, available, and reasonable methods of prevention, control, and treatment for all Phase II liquid effluents at the Hanford Site.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(s) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
M-17-16D	Implement closed loop cooling for Buildings 291-Z, 234-5Z, and 236-Z, as provided by "291-Z Closed Loop Cooling" (Project C-040) and "Plutonium Finishing Plant Liquid Low-Level Waste System Modification" (Project B-680H). Reduce the discharge to Crib 216-Z-20 to less than or equal to 75 gallons per minute, averaged over the calendar month.	1/94	1/94

**ACCOMPLISHMENTS**

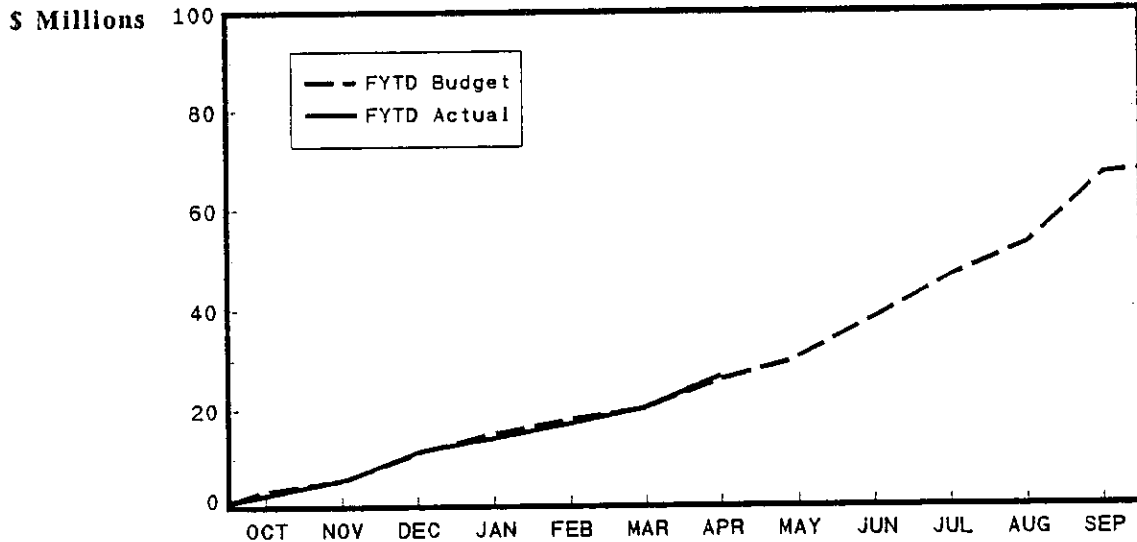
- Submitted "300 Area Treated Effluent Disposal Facility" (Project L-045H) design documentation to EPA and Ecology as a primary document, thus completing interim milestone M-17-09A.
- Humphrey Construction, Incorporated of Woodinville, Washington was selected to construct the 300 Area Treated Effluent Treatment Facility. Construction start is tentatively scheduled for June 1993.
- Presented groundwater assessment plans to EPA and Ecology for the Liquid Wastewater Disposal Facility 1325-N, Crib 216-W-LWC, Powerhouse Pond 284-W, and Pond 2101-M.
- Received Ecology comments on the 200 Area Treated Effluent Disposal Facility (Project W-049H) 80% design report for the disposal site.

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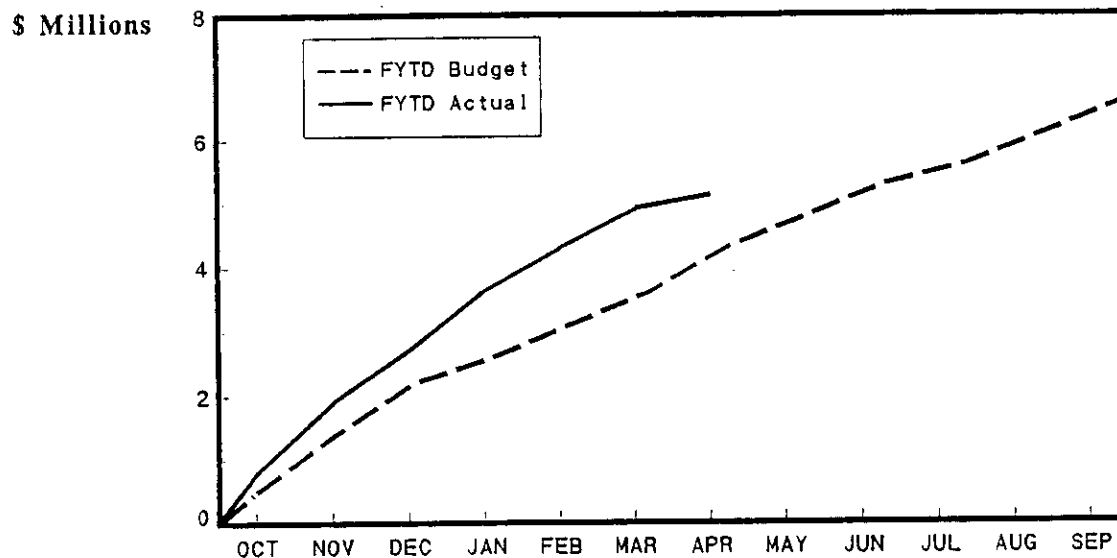
- Several minor changes packages (i.e., Class III Changes) are forthcoming on this milestone. These proposed changes pertain to modifications required to implement the Sampling and Analysis Plans. Proposed changes include a modification of analytical methods to be used to determine specific parameters (i.e., nitrate, nitrite, and acidity) and sampling locations. These changes will not affect the quality of effluent or affect the quality or reliability of sampling results.

FY 1993



FYTD Budget	0.3	4.3	8.3	12.9	16.2	20.4	27.5	32.9	39.5	46.3	54.0	68.3
FYTD Actual	2.4	6.9	10.7	14.1	17.3	20.2	25.3					
Spending Var	(2.1)	(2.6)	(2.4)	(1.2)	(1.1)	0.2	2.2					

Variance Explanation: The September budget decrease from \$77.8 million in the March report to \$68.3 million in this report results from the deobligation of funds associated with the privatization of the laundry.



FYTD Budget	0.5	1.4	2.2	2.6	3.1	3.7	4.2	4.7	5.1	5.5	5.9	6.3
FYTD Actual	0.8	1.9	2.7	3.6	4.2	4.9	5.2					
Spending Var	(0.3)	(0.5)	(0.5)	(1.0)	(1.1)	(1.2)	(1.0)					

Variance Explanation: The cost overrun is caused by technical and design review and support required to perform and complete the U.E.&C. design reviews. Additionally, extensive amounts of unanticipated process design, rework, drawing details, and other products associated with building systems were incurred.

**MAJOR MILESTONE: M-18-00**  
**STATUS FOR END OF MONTH: APRIL 1993**

DOE DIRECTOR: J. M. Hennig

MANAGER: R. J. Roberts

BASELINE DATE: March 1997

PROJECTED DATE: March 1997

**DESCRIPTION:** Complete Waste Receiving and Processing (WRAP) Facility Module 1 construction and initiate operations.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(s) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
None.			

**ACCOMPLISHMENTS**

- Submitted air emissions related permit applications to the regulators.
- Continued discussions about the RCRA permit application at the monthly Tri-Party Agreement Unit Managers meeting.
- The contractor completed Title 2 Design activities and the design package was sent to RL.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Initiate construction of WRAP Facility, Module 1.
- Complete glovebox testing.
- Complete the Preliminary Safety Analysis Report (PSAR) for the WRAP, Module 1 Facility.
- Prepare construction bid packages for WRAP Facility, Module 1. These bid packages will cover major components of the WRAP Facility (e.g., electrical system, heating and ventilation system, fire protection system). Private firms will bid on these packages.

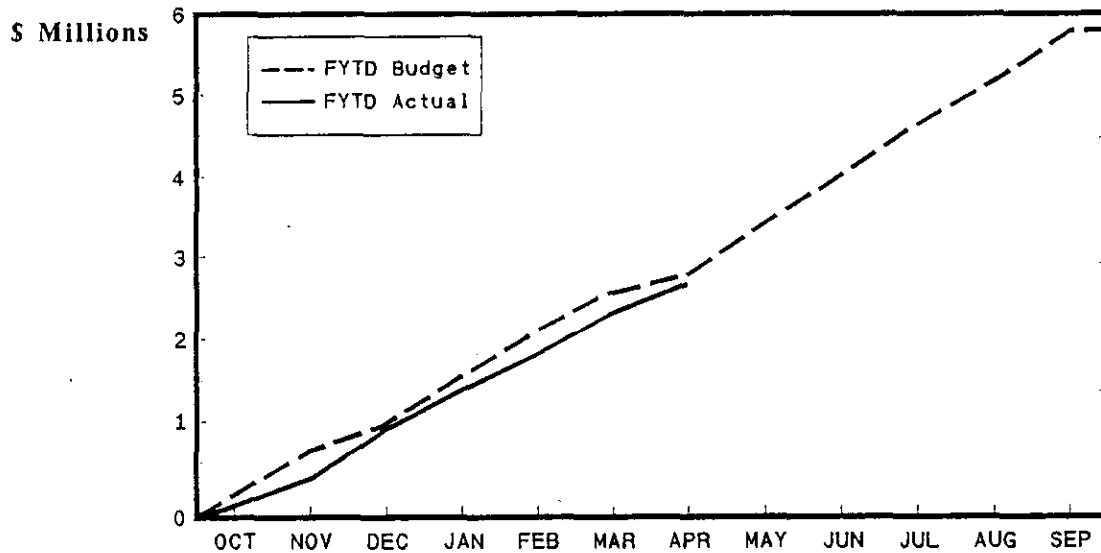
**MILESTONE STATUS/PROBLEMS/ISSUES**

- This milestone is on schedule.

Plant waste acceptance criteria (i.e., WRAP Facility, Module 2A) remains on schedule. The submodularization of WRAP Facility, Module 2, is reflected in Tri-Party Agreement change request M-19-91-01. Ecology and EPA continue to review this change request.

- WRAP Facility, Module 2A, is on schedule for September 1999, the Tri-Party Agreement Milestone M-19-00 due date.

FY 1993



FYTD Budget	0.2	0.7	1.0	1.6	2.1	2.5	2.8	3.4	4.0	4.6	5.2	5.9
FYTD Actual	0.1	0.4	0.9	1.4	1.8	2.3	2.7					
Spending Var	0.1	0.3	0.1	0.2	0.3	0.2	0.1					

**MAJOR MILESTONE: M-19-00**  
**STATUS FOR END OF MONTH: APRIL 1993**

DOE DIRECTOR: J. M. Hennig

MANAGER: R. J. Roberts

BASELINE DATE: September 1999

PROJECTED DATE: September 1999

**DESCRIPTION:** Complete WRAP Facility, Module 2, construction and initiate operations.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(s) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
None.			

**ACCOMPLISHMENTS**

- Contractor developed draft waste feed specification for treatment in WRAP Module 2A.
- Initiated update to the Functional Design Criteria for WRAP Module 2.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Continue preparation of the Advanced Conceptual Design for WRAP Facility, Module 2A.
- Obtain approval of Tri-Party Agreement change request M-19-91-01 from Ecology and EPA.
- Continue with waste form verification and in-drum mixing testing.
- Initiate activities for the development of the WRAP Facility, Module 2A preliminary safety analysis report.
- Obtain Key Decision 1 for WRAP Facility, Module 2A, from HQ. This decision is required to proceed into definitive design of the project.

**MILESTONE STATUS/PROBLEMS/ISSUES**

- Technical issues associated with the Waste Isolation Pilot Plant waste acceptance criteria continue to impact the design of WRAP Facility, Module 2. A strategy for the WRAP Facility, Module 2B, is being evaluated in light of the Waste Isolation Pilot Plant waste acceptance criteria issues. Work on the portion of WRAP Facility, Module 2 (i.e., WRAP Facility, Module 2B) that will receive and process remote handled transuranic waste contaminated hazardous waste (i.e., mixed remote handled transuranic waste) is behind schedule. The portion of WRAP Facility, Module 2, that is not affected by the Waste Isolation Pilot



1990); and the 616 Nonradioactive Dangerous Waste Storage Facility (M-20-02, completed July 1989).

- Respond to Notices of Deficiency for the Hanford Patrol Academy Demolition Site (M-20-25, completed November 25, 1992), the Ashpit Demolition Site Closure Plan (M-20-26, completed November 25, 1992), the Hexone Storage and Treatment Closure Plan (M-20-27, completed November 25, 1992), the E-8 Borrow Pit Closure Plan (M-20-28, completed November 25, 1992), and the 216-B-3 Pond System Closure/Postclosure Plan (M-20-09, completed March 31, 1990)
- Revise 105-DR Large Sodium Fire Facility Closure Plan, 2101-M Pond Closure Plan, 304 Concretion Facility Closure Plan, and 303-K Radioactive Mixed Waste Storage Facility Closure Plan to reflect agreements reached with Ecology on Notice of Deficiency comments.
- Submit revised Hanford Facility Dangerous Waste Part A Permit Application Form 3s for the 325/3100 Hazardous Waste Treatment Unit, Liquid Effluent Retention Facility, South Retention Basin 207-A, Crib 216-A-37-1, 200 Area Effluent Treatment Facility, and the T Plant Complex.
- Submit the 200 Area Effluent Treatment Facility Part B permit application to Ecology and the EPA in compliance with milestone M-20-50.

#### MILESTONE STATUS/PROBLEMS/ISSUES

- M-20-30, "Submit 303-M Oxide Facility Part B to Ecology and EPA"--RL submitted to Ecology a request to withdraw the Part A permit application for the 303-M Oxide Facility and a change request to delete milestone M-20-30. Ecology denied both. RL then prepared a notice of dispute and held a meeting with Ecology to initiate resolution. During the February Tri-Party Agreement Project Managers' meeting, Ecology requested that RL consider integrating the RCRA closure and *Comprehensive Environmental Response Compensation and Liability Act* (CERCLA) past practice remediation, keeping the Part A permit application in place, and requesting relief from some of the administrative interim status requirements. Later, the Ecology Tri-Party Agreement Project Manager directed RL to discuss this issue with the Ecology Kennewick Office. During a March 16, 1993, meeting, Ecology stated that their position is to conduct limited sampling, submit a RCRA closure plan, decontaminate and decommission the building, and leave the concrete slab for protection of Burial Ground 618-1. A letter is being prepared to transmit a Tri-Party Agreement change request reflecting RL's position to delay any action for this TSD unit until the operable unit remediation is completed.
- M-20-50, "Submit 200 Area Effluent Treatment Facility Part B"--Work is proceeding on schedule to meet the current milestone date. The Part B permit application is being prepared for RL review.
- M-20-42, Submit Thermal Treatment Part B to Ecology and EPA (T-X-3)--Development of the Part B application for this unit has identified several issues to be resolved before a technically accurate and complete application can be prepared. A revised Change Package to delay submittal of this Part B permit application from December 31, 1993, to December 31,

**MAJOR MILESTONE: M-20-00**  
**STATUS FOR END OF MONTH: APRIL 1993**

DOE DIRECTOR: J. D. Bauer

MANAGER: S. M. Price

BASELINE DATE: May 1996

PROJECTED DATE: May 1996

**DESCRIPTION:** Submit Part B permit applications or closure plans for all RCRA treatment, storage, and disposal (TSD) units.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
M-20-30	Submit 303-M Oxide Facility Part B.	10/92	Dispute*
M-20-42	Submit Thermal Treatment Part B to Ecology and EPA (T-X-3).	12/93	12/94*
M-20-50	Submit 200 Area Effluent Treatment Facility** Part B.	8/93	8/93

\*See "Milestone Status/Problems/Issues."

\*\*The unit name has been changed from the 242-A Evaporator/PUREX Plant Process Condensate Treatment Facility to the 200 Area Effluent Treatment Facility.

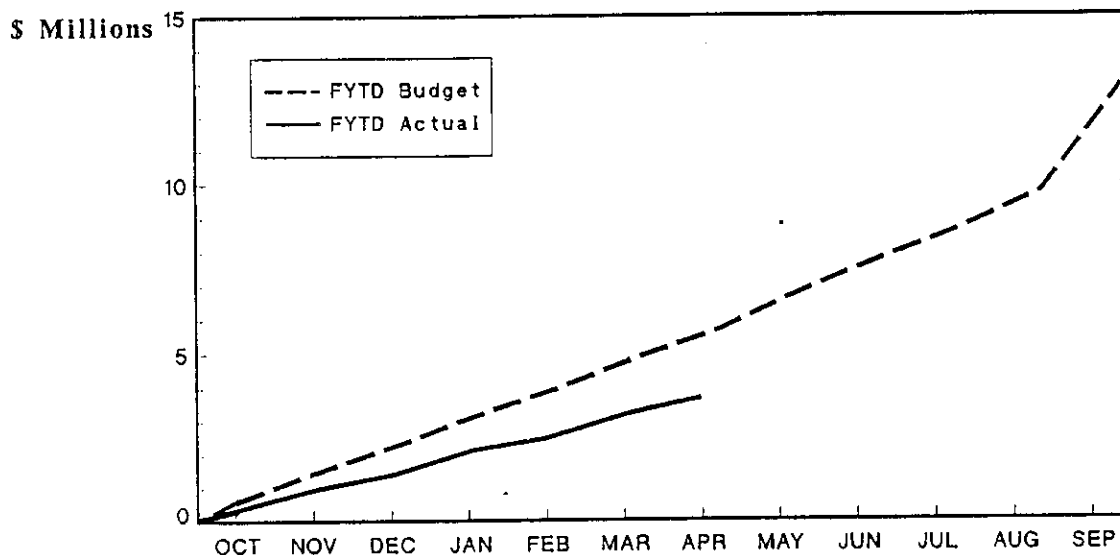
**ACCOMPLISHMENTS**

- Submitted a Notice of Deficiency response table for the Hanford Facility Dangerous Waste Permit Application, Low-Level Burial Grounds, to Ecology on April 9, 1993.
- Submitted an addendum to the Notice of Intent for Expansion Under Interim Status for the T Plant Complex to Ecology and the public for review on April 6, 1993.
- Submitted revised Hanford Facility Dangerous Waste Part A Permit Application Form 3s for the SSTs, 222-S Laboratory Complex, and the 242-A Evaporator to Ecology during April.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Submit a Notice of Intent for expansion of treatment and storage capacities at the DST System.
- Respond to Notices of Deficiency for the following Hanford Facility Dangerous Waste Permit Application portions: DST System (M-20-16, completed June 1991); Liquid Effluent Retention Facility (M-20-47, completed June 1991); 305-B Storage Unit (M-20-08, completed January

FY 1993



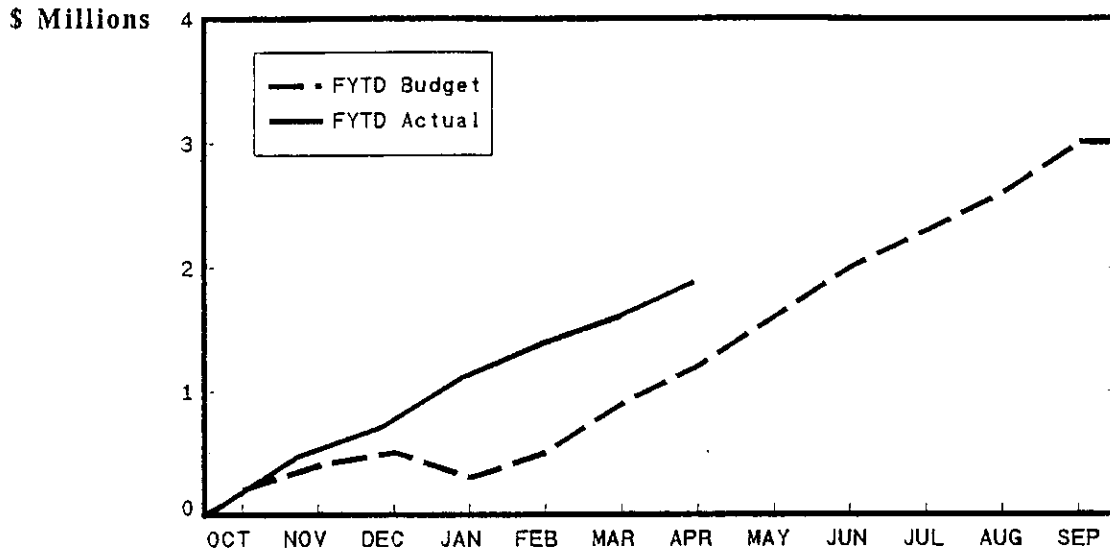
FYTD Budget	0.6	1.5	2.3	3.2	4.0	4.9	5.7	6.8	7.8	8.7	9.8	13.0
FYTD Actual	0.3	0.9	1.4	2.1	2.5	3.2	3.7					
Spending Var	0.3	0.6	0.9	1.1	1.5	1.7	2.0					

Variance Explanation: The cost underrun results from continued delays in Ecology's review of Closure Plans, Part B Permit applications, and notice of deficiency responses resulting in less-than-planned support for follow-on revisions of these documents. The September budget increase of \$2.5 million from the March report results from a mid-year review request and the approval of the RL directed change. Additional funding was received for RCRA compliance records review, records management, environmental compliance surveillance test, and ventilation and air monitoring.

1994, is being prepared for RL review. The original Change Package (M-20-92-7) was submitted to RL for approval on October 27, 1992.

- M-20-09, "Submit 216-B-3 Pond Closure/Postclosure Plan to Ecology and EPA"--A strategy and schedule is being prepared to combine remediation activities associated with the past practice operable unit, 200-BP-11, with the closure activities associated with the 216-B-3 Pond System. This strategy is in support of the activities necessary to administratively clean close the 216-B-3B and -3C lobes and partially close the 216-B-3 main pond and -3A lobe by June 1995. A decision must be reached between RL, Ecology, and EPA on this strategy to allow for continued use of the 216-B-3B and -3C lobes to support liquid effluent disposal (216 Consent Order). This integration information was discussed with the Ecology Kennewick Office. The purpose of the meeting was to inform the Kennewick Office of the need to integrate the closure activities and the operable unit activities.
- Hanford Facility Dangerous Waste Permit (Hanford Facility Permit)--A revision of the *Hanford Facility Dangerous Waste Permit Application, Rev. 0*, incorporating the tabulation of updates is now being prepared. This application was originally submitted to the regulators (Ecology and EPA) in October of 1991. This revision will reflect the *Hanford Site Comments on the Draft Permit for the Treatment, Storage, and Disposal of Dangerous Waste for the Hanford Facility* submitted to the regulators on March 16, 1992, and the relatively few changes required to make the application current as of March 15, 1993. A team comprising RL, WHC, Pacific Northwest Laboratory, Kaiser Engineers Hanford, and Hanford Environmental Health Foundation representatives is currently conducting a final review. The *Hanford Facility Dangerous Waste Permit Application, Rev. 1* is scheduled for transmittal to the regulators in early June. The schedule for reissuance of the revised Draft Hanford Facility Permit for public comment by Ecology and EPA remains indefinite.

FY 1993



FYTD Budget	0.2	0.4	0.5	0.3	0.5	0.9	1.2	1.6	2.0	2.3	2.7	3.1
FYTD Actual	0.1	0.6	0.8	1.1	1.4	1.6	1.9					
Spending Var	0.1	(0.2)	(0.3)	(0.8)	(0.9)	(0.7)	(0.7)					

Variance Explanation: The cost overrun is artificial. The spending variance stems mainly from completing the drilling of the CY 1992 groundwater monitoring wells in December 1992, rather than in September, as was planned when the FY 1993 work plan was developed. RL de-obligated \$750,000 of the projects' funds in December. This reduction was included in January 1993; therefore, the milestone appears as a reduction in FY 1993. If you adjust the de-obligation into the FY 1993 budget, the April fiscal year to date budget is \$1.7 million with no spending variance.

**MAJOR MILESTONE: M-24-00**  
**STATUS FOR END OF MONTH: March 1993**

DOE DIRECTOR: J. M. Hennig

MANAGER: R. R. Thompson

BASELINE DATE: December 1993

PROJECTED DATE: December 1993

**DESCRIPTION:** Install RCRA groundwater monitoring wells at the rate of 29 in CY 1989, 30 in CY 1990, and up to 50 per year thereafter as specified by agreed interim milestones until all land disposal units and SSTs are determined to have RCRA-compliant monitoring systems

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
M-24-00E	Install a maximum of 50 wells for CY 1993.	12/93	12/93
M-24-30	Install two additional RCRA wells around Crib 1325-N (4 total).	12/93	12/93
M-24-31	Install two additional RCRA wells around the Low-Level Burial Grounds (81 total)	12/93	12/93
M-24-32	Install three additional RCRA wells around the Grout Treatment Facility (13 total).	12/93	12/93

**ACCOMPLISHMENTS**

- Backpulled and developed well N-81 at Crib 1325-N. The well was sample ready on April 22, 1993.

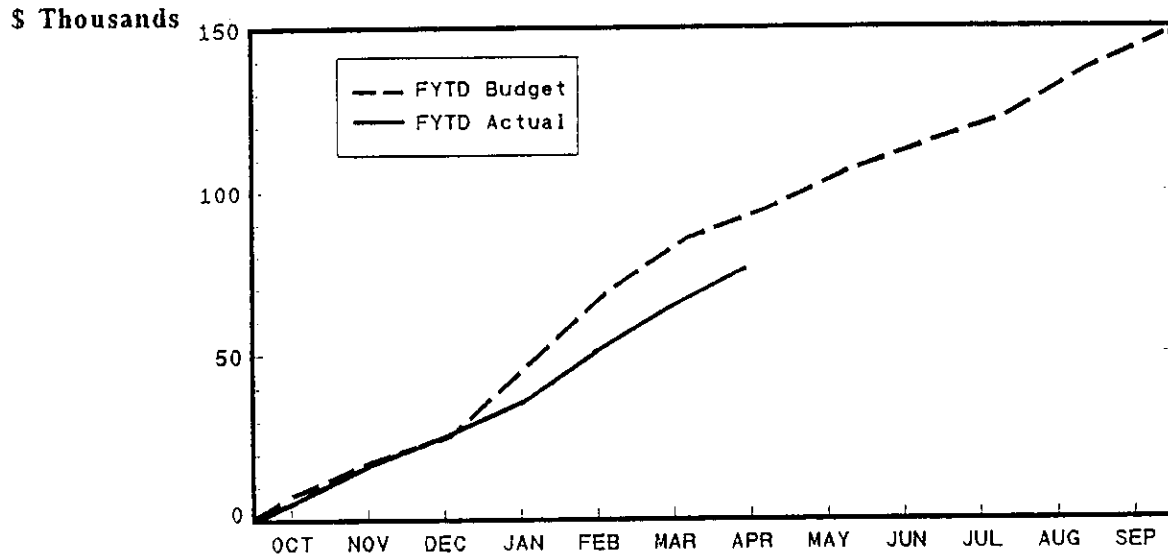
**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Proceed with drilling activities for CY 1993 wells.

**MILESTONE STATUS/PROBLEMS/ISSUES**

- After identifying seven locations for new wells in CY 1993, Ecology and RL agreed that monitoring to be accomplished by one of the wells originally proposed at Crib 1325-N can be accomplished by an existing well. Change request M-24-93-1, which reduces this milestone by one well, has been prepared; an interim milestone requirement is specified for six wells in CY 1993 after the revision.

FY 1993



FYTD Budget	7.5	17.7	25.5	47.4	69.4	85.3	94.3	105.8	114.4	122.4	136.6	147.1
FYTD Actual	5.3	16.4	25.1	35.6	52.0	65.4	79.1					
Spending Var	2.2	1.3	0.4	11.8	17.4	19.9	15.2					

Variance Explanation: None required. This chart is prepared in thousands to provide meaningful data. The Budget Baseline Summary table shows zero because it is in millions.

**MAJOR MILESTONE: M-26-00**  
**STATUS FOR END OF MONTH: APRIL 1993**

DOE DIRECTOR: J. M. Hennig

MANAGER: C. J. Geier

BASELINE DATE: April 1993

PROJECTED DATE: April 1993

**DESCRIPTION:** Submit annual Hanford Site LDR report in accordance with the LDR Plan to cover the period from April 1 through March 31.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(s) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
M-26-01C	Submit an annual Hanford LDR Report in accordance with the LDR Plan to cover the period from April 1 of the previous year through March 31 of the reporting year.	4/30/93	4/30/93

**ACCOMPLISHMENTS**

- Submitted the 1993 LDR Report to EPA and Ecology as a primary document.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

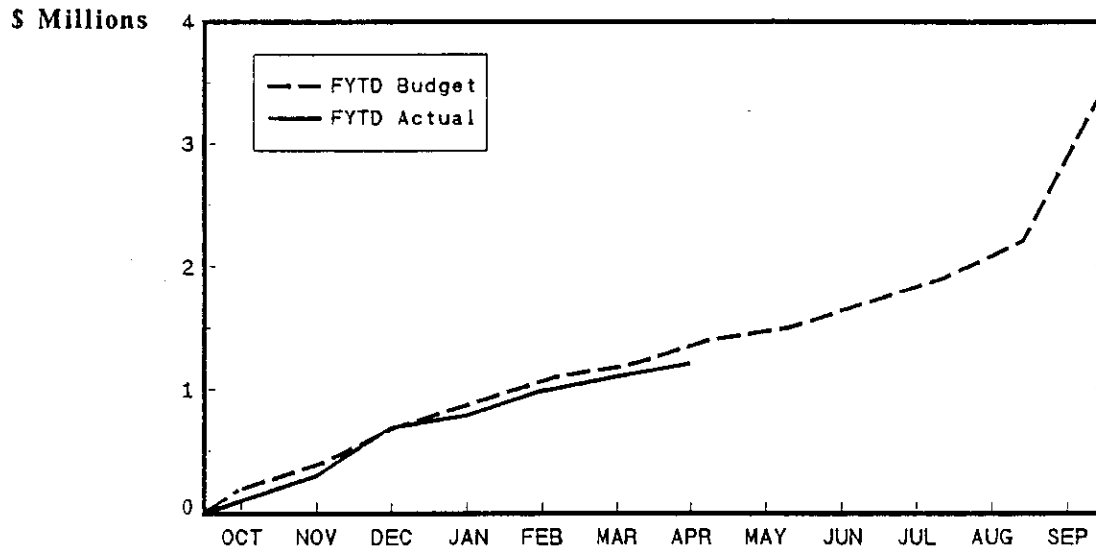
- Resolve any regulator comments on the 1993 LDR Report and receive regulator approval of the document.

**MILESTONE STATUS/PROBLEMS/ISSUES**

- This milestone is on schedule.



FY 1993



FYTD Budget	0.2	0.4	0.7	0.9	1.0	1.2	1.3	1.5	1.7	1.9	2.2	3.6
FYTD Actual	0.0	0.3	0.7	0.8	1.0	1.1	1.2					
Spending Var	0.2	0.1	0.0	0.1	0.0	0.1	0.1					

**MAJOR MILESTONE: M-30-00**  
**STATUS FOR END OF MONTH: APRIL 1993**

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Winctzak

BASELINE DATE: September 1993

PROJECTED DATE: September 1993

**DESCRIPTION:** Complete integrated general investigations and studies for the 100 Area.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
M-30-05	Complete installation of all-field instrumentation and initiate monitoring activities necessary to perform long-term aquifer river investigations.	9/93	9/93

**ACCOMPLISHMENTS**

Nothing significant to report.

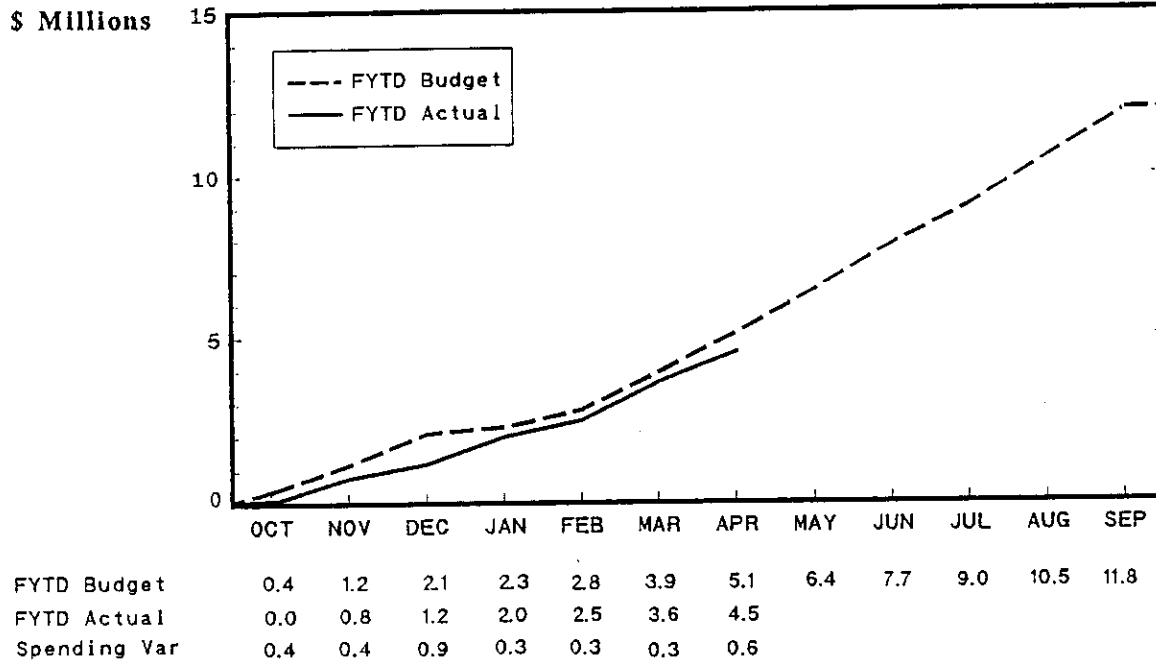
**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Issue cultural resource reports in June 1993.
- Complete the second draft of the aquatic investigations after resolving the data validation qualifiers and other concerns.
- Complete installation of well monitoring equipment.

**MILESTONE STATUS/PROBLEMS/ISSUES**

- This milestone is on schedule.

FY 1993



Variance Explanation: The cost underrun design is a result of not ramping up the design for Title I as anticipated. Manpower goals have not yet been reached. Also, the receipt of a billing for procurement of corrosion test coupons was delayed.

**MAJOR MILESTONE: M-31-00**  
**STATUS FOR END OF MONTH: APRIL 1993**

**DOE DIRECTOR:** R. W. Brown

**MANAGER:** R. L. Fritz

**BASELINE DATE:** TBD

**PROJECTED DATE:** TBD

**DESCRIPTION:** Provide additional DST capacity. Construction complete.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
M-31-02	Recommend additional tank milestones.	09/30/92	08/31/93

**ACCOMPLISHMENTS**

Nothing significant to report.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Resolve the issues associated with the Ecology denial of change request M-31-92-03.
- Continue preliminary design of the New Multi-Function Waste Tank Facility.

**MILESTONE STATUS/PROBLEMS/ISSUES**

- Ecology reviewed meeting minutes for the August 1992 Tri-Party Agreement milestone management review meeting and concluded that the delay in submitting Milestone M-31-02, "Recommend Additional Tank Milestones," had been discussed at the Project Managers' meeting well in advance of the actual submittal of the change request. Ecology verbally recommended that the change request be accepted as written.

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